ENGG*2230 Fluid Mechanics

01

Fall 2020
Section(s): C01

School of Engineering
Credit Weight: 0.50
Version 1.00 - September 08, 2020

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1 Course Details

1.1 Calendar Description

Analysis of steady ideal and viscous fluid flow systems using the Continuity, Bernoulli and Momentum equations. Boundary layer theory is treated in terms of viscous and pressure drag, lift and its importance in heat and mass transfer. Dimensional analysis and dynamic similitude are studied to provide an understanding of flow systems analysis and modeling. Introduction to pipe flow and open channel flow.

Pre-Requisites: ENGG*1210, MATH*1210

1.2 Timetable

Lectures:

Tuesday	2:30PM – 3:50PM	Online (virtual)
Thursday	2:30PM – 3:50PM	Online (virtual)

Seminars/Tutorials (alternate weeks):	**Section**		
Wednesday	0102:	2:30PM – 4:20PM	Online (virtual)
Thursday	0101:	9:30AM – 11:20AM	Online (virtual)
Friday	0103:	2:30PM – 4:20PM	Online (virtual)

Laboratory (alternate weeks):	**Section**		
Wednesday	0102:	2:30PM – 4:20PM	Online (virtual)
Thursday	0101:	9:30AM – 11:20AM	Online (virtual)
Friday	0103:	2:30PM – 4:20PM	Online (virtual)

1.3 Final Exam

Tuesday December 10th, 2:30PM to 4:30PM, room TBA.

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2 Instructional Support

2.1 Instructional Support Team

Instructor: Rafael Santos
Email: santosr@uoguelph.ca
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Office: THRN 2342
Office Hours: TBA on CourseLink or by appointment.

Lab Technician: Ryan Smith
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Office: THRN 1114

2.2 Teaching Assistants

Teaching Assistant: Arash Yoosefdoost
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Teaching Assistant: Hiral Jariwala
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Teaching Assistant: Mohammad Khodabakhshisoureshjani
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Teaching Assistant: Scott Gardner
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Office Hours: TBA on CourseLink or by appointment.

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3 Learning Resources

3.1 Required Resources

Course Website (Website)

https://courselink.uoguelph.ca/

Course material, news, announcements, and grades will be regularly posted to the ENGG*2230 CourseLink site. You are responsible for checking the site regularly. **As per University regulations, all students are required to check their <mail.uoguelph.ca> e-mail account regularly**; e-mail is the official route of communication between the University and students.

3.2 Recommended Resources

Recommended readings (Textbook)

1) This is the textbook that has traditionally been used for ENGG*2230 (it is not "required" this semester, it is one of the "recommended" readings):

"Fluid Mechanics", by Frank M. White , 8th Edition, McGraw-Hill, 2016, ISBN 978-0-07-339827-3. https://www.mheducation.com/highered/product/fluid-mechanics-white/M9780073398273.html

Available from the publisher as Hardcopy and as eBook. Hardcopies of available editions have been placed on reserve at the McLaughlin Library.

2) These are other textbooks that students may find helpful when in need of additional readings and practice problems (note: not all available in the McLaughlin Library):

"**Mechanics of Fluids**", by M.C. Potter, D.C. Wiggert, B.H. Ramadan. 5th Edition.

"**Schaum's Outline of Fluid Mechanics and Hydraulics**", by R.V. Giles, J.B. Evett, C. Liu. 4th Edition.

"**Marks' Standard Handbook for Mechanical Engineers**", by E.A. Avallone, T. Baumeister III, A. Sadegh. 11th Edition.

"**Perry's Chemical Engineers' Handbook**", by D.W. Green, R.H. Perry. 8th Edition.

Open Educational Resources (Textbook)

These are Open Educational Resources, which are free to access, and that you can use in addition to, or in place of, commercial textbooks (with some limitations):

"Introduction to Fluid Mechanics: Fundamentals and Applications", by Herbert Oertel, available online: http://dx.doi.org/10.5445/KSP/1000003548

Engineering Peer Helpers (Voluntary) (Other)

The peer helper program, staffed by upper year engineering students, offers regular workshops aimed at developing problem solving skills and new learning tools specific to core engineering courses such as Fluid Mechanics. For more information on the Peer Helper program, visit:

https://www.uoguelph.ca/engineering/content/current/peer-helper

3.3 Additional Resources

Lecture Information (Notes)

Lectures will be presented through a combination of PowerPoint slides, Handwritten notes, and Document Camera notes. The slides for the lectures will be posted on the course website (CourseLink). These slides are augmented with in-lecture notes, discussions, and detailed example solutions. You are thus expected to **take notes** during lectures, which includes the conceptual theory discussed, the example solutions, and supplementary information the instructor provides while lecturing.

Lab Manual (Lab Manual)

The lab manual is available on CourseLink. You are responsible for reviewing this on your own time in preparation for each experiment **prior** to your scheduled laboratory. The lab manual also contains instructions and questions to be addressed in the lab reports to be completed.

Problem Sets (Other)

There will be **unmarked** problem sets (one per lecture module) posted on CourseLink during the term. You are expected to complete each problem set on a timely basis. Most students find that practice problems are the best way to stay engaged in the course. Solutions will be posted on CourseLink before the next unmarked problem set is posted.

Miscellaneous Information (Other)

Supporting information will also be occasionally posted on the CourseLink site.

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4 Learning Outcomes

4.1 Course Learning Outcomes

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

1. Describe the physical and flow properties of fluids, and their impact on engineered systems and structures.
2. Characterize and analyze fluid mechanics problems through the use of the appropriate tools, including conservation of mass, conservation of momentum, and the conservation of energy, and using the appropriate approaches, including integral (control volume),

differential, or dimensional approaches.
3. Estimate head loss, required power, conduit sizing, and flow rates in internal and open flow systems, and lift and drag forces on submerged bodies.
4. Model fluid engineering systems, with stated assumptions, systematically solved and clearly communicated, including the use of correct accuracy, precision, significant digits, and dimensional homogeneity.
5. Use appropriate apparatus, sensors and instruments to analyze fluid flow, test fluid flow hypotheses, and collect data, by conducting laboratory experiments.
6. Write clear, concise and professional laboratory reports for the biweekly fluid mechanics laboratories.
7. Demonstrate effective skills in teamwork during group activities (biweekly laboratories), and respectful interactions with peers, lab technicians, graduate teaching assistants, and instructor during lectures, tutorials and laboratories.

4.2 Engineers Canada - Graduate Attributes (2018)

Successfully completing this course will contribute to the following:

#	Outcome	Learning Outcome
1	Knowledge Base	1, 2, 3
1.1	Recall, describe and apply fundamental mathematical principles and concepts	1, 2, 3
1.2	Recall, describe and apply fundamental principles and concepts in natural science	1, 2, 3
1.3	Recall, describe and apply fundamental engineering principles and concepts	1, 2, 3
2	Problem Analysis	2, 3, 4
2.2	Identify, organize and justify appropriate information, including assumptions	2, 3, 4
2.3	Construct a conceptual framework and select an appropriate solution approach	2, 3, 4
2.4	Execute an engineering solution	2
2.5	Critique and appraise solution approach and results	2, 3, 4
3	Investigation	5
3.3	Analyze and interpret experimental data	5
3.4	Assess validity of conclusions within limitations of data and methodologies	5

#	Outcome	Learning Outcome
5	Use of Engineering Tools	5
5.2	Demonstrate proficiency in the application of selected engineering tools	5
5.3	Recognize limitations of selected engineering tools	5
6	Individual & Teamwork	7
6.2	Understand all members' roles and responsibilities within a team	7
6.3	Execute and adapt individual role to promote team success through, for example, timeliness, respect, positive attitude	7
6.4	Apply strategies to mitigate and/or resolve conflicts	7
6.5	Demonstrate leadership through, for example, influencing team vision and process, promoting a positive team culture, and inspiring team members to excel	7
7	Communication Skills	6
7.1	Identify key message(s) and intended audience in verbal or written communication as both sender and receiver	6
7.2	Interpret technical documentation such as device specification sheets, drawings, diagrams, flowcharts, and pseudocode	6
7.3	Construct the finished elements using accepted norms in English, graphical standards, and engineering conventions, as appropriate for the message and audience	6
7.4	Substantiate claims by building evidence-based arguments and integrating effective figures, tables, equations, and/or references	6
7.5	Demonstrate ability to process oral and written communication by following instructions, actively listening, incorporating feedback, and formulating meaningful questions	6
8	Professionalism	7
8.3	Demonstrate professional behaviour	7

5 Teaching and Learning Activities

Students are responsible for all information presented in the lectures, tutorials, and labs, and

student participation is encouraged. The dynamics of each learning activity should be based on professionalism and mutual respect. Everyone in the classroom has the right to participate and contribute.

Students will regularly receive instructions about the upcoming lecture/tutorial/lab format each week. The course will be delivered online, and some portions will be pre-recorded (to be accessible on Microsoft Stream), and some portions will be hosted live (on Zoom or WebEx). Links to pre-recorded lectures and lab demonstrations will be posted on CourseLink, and students can watch them at any time. Live sessions will always be scheduled during the regularly scheduled lecture/tutorial/lab periods. Live lecture sessions will be used as Q&A sessions as follow-up to pre-recorded lectures. Live tutorial sessions will be used to cover additional problem solving examples.

Outside of scheduled class times, students are expected to work on practice problem set questions, review lecture materials, and/or consult recommended textbooks, in preparation for the course examinations, and to work with their group members (remotely/socially distant) to complete the lab reports.

The lecture schedule below is given week-by-week in a tentative fashion. Some modules maybe be anticipated or delayed depending on the pace of lectures and the term tests schedule.

5.1 Lecture

Weeks 1-2

Topics:	Fluids and fluid properties
References:	Chapter 1 of White (8th ed.); Chapter 1 of Potter et al. (5th ed.)
Learning Outcome:	1, 4

Weeks 2-4

Topics:	Fluid statics and pressure distribution
References:	Chapter 2 of White (8th ed.); Chapter 2 of Potter et al. (5th ed.)
Learning Outcome:	1, 4

Week 5

Topics:	Fluid flow concepts (part 1): Fluid flow phenomena
References:	Chapter 3 of White (8th ed.); Chapter 3 of Potter et al. (5th ed.)
Learning Outcome:	1, 2

Week 6

Topics: Fluid flow concepts (part 2): Equations of fluid motion

References: Chapters 3 and 4 of White (8th ed.); Chapters 4 and 5 of Potter et al. (5th ed.)

Learning Outcome: 1, 2

Week 7

Topics: Fluid flow concepts (part 3): Energy balance

References: Chapters 3 and 4 of White (8th ed.); Chapters 3 and 5 of Potter et al. (5th ed.)

Learning Outcome: 1, 2

Weeks 8-9

Topics: Internal viscous flow (pipe flow)

References: Chapter 6 of White (8th ed.); Chapters 7 and 11 of Potter et al. (5th ed.)

Learning Outcome: 1, 2, 3, 4

Week 10

Topics: Pumps and turbomachinery

References: Chapter 11 of White (8th ed.); Chapter 12 of Potter et al. (5th ed.)

Learning Outcome: 1, 3

Week 11

Topics: External flow and boundary layer theory

References: Chapter 7 of White (8th ed.); Chapter 8 of Potter et al. (5th ed.)

Learning Outcome: 1, 2, 3, 4, 4

Week 12

Topics: Open channel flow

References: Chapter 10 of White (8th ed.); Chapter 10 of Potter et al. (5th ed.)

Learning Outcome: 1, 2, 3

5.2 Labs

The laboratory is a vital part of the course – material introduced in the lab may be a part of any exam. Labs will be done in groups of up to 3 students during your scheduled lab time.

As the course is fully online this semester, there will be no in-person lab activities. Instead, the Teaching Assistants and Lab Instructor will pre-record lab demonstrations, which you will watch to experience what doing each lab experiment is like, or provide a computational model that simulates a lab experiment. You will then write your lab reports using data that is assigned to your group, or that is generated by the model. Although lab reports will be written remotely (or with social distancing), it is expected that each group member equally contribute to each lab report, and approve the lab report before submission.

You must attend (online) your scheduled lab during the week of September 30th to Oct 2nd, 2020. At that time you will meet your Lab TA's, who will provide more details about how labs will be run, and you will sign up for your lab groups.

5.3 Lab Activities

Lab Activity	Topic
0	Intro to the fluids lab and lab safety
#1	Impact of a jet (lab experiment demonstration)
#2	Flow measurement (lab experiment demonstration)
#3	Pipe friction (lab experiment demonstration)
#4	Minor losses (model simulation)
#5	Discharge over weirs (lab experiment demonstration)

5.4 Due Dates

The lab reports are to be submitted electronically in dropboxes in CourseLink that will be created based on your lab teams. The due date will be one week after each scheduled "lab day", at 11:59PM. Due dates for each lab group will be posted on Courselink.

Each lab report is to include a raw data sheet, containing the data that was assigned to your group, or the data that you collected from your model. As such, each group will have a unique set of data to write the report on.

Each team must submit a single electronic report for each experiment. The report is to be no

longer than 10 pages, which includes the title page and data sheet; that is: one page for the title page, one page for the data sheet, and up to 8 pages for the rest of the work. Additional report information is in the laboratory manual.

As there are no in-person labs, there will not be any missed labs. If you are unable to contribute to writing a lab report **due to grounds for granting academic consideration** or **religious accommodation**, arrangements must be made with the teaching assistant to complete a makeup lab report at the end of the semester (last week of classes).

5.5 Seminar/Tutorials

The "tutorial days" will be conducted in alternating weeks with the "lab days", during the same two-hour time blocks (see schedule).

Everyone must attend (online) your scheduled lab during the week of September 30th to Oct 2nd, 2020, which is when groups will be formed.

There are no scheduled labs or tutorials prior to September 16th, 2020.

5.6 Lab and Tutorial Schedule

	Wednesday (Section 02)	Thursday (Section 01)	Friday (Section 03)
Sept. 16th-18th	**Tutorial Day 1**	**Tutorial Day 1**	**Tutorial Day 1**
Sept. 23rd-25th	**Tutorial Day 2**	**Tutorial Day 2**	**Tutorial Day 2**
Sept. 30th-Oct. 2nd	**Lab Day 1**	**Lab Day 1**	**Lab Day 1**
Oct. 7th-Oct. 9th	**Tutorial Day 3**	**Tutorial Day 3**	**Tutorial Day 3**
Oct. 14th-16th	**Lab Day 2**	**Lab Day 2**	**Lab Day 2**
Oct. 21st-23rd	**Tutorial Day 4**	**Tutorial Day 4**	**Tutorial Day 4**
Oct. 28th-30th	**Lab Day 3**	**Lab Day 3**	**Lab Day 3**

Nov. 4th-Nov 6th	**Tutorial Day 5**	**Tutorial Day 5**	**Tutorial Day 5**
Nov. 11th-13th	**Lab Day 4**	**Lab Day 4**	**Lab Day 4**
Nov. 18th-20th	**Tutorial Day 6**	**Tutorial Day 6**	**Tutorial Day 6**
Nov. 25th-27th	**Lab Day 5**	**Lab Day 5**	**Lab Day 5**
Dec. 2nd-4th	Open lab day for makeup labs (all sections)	Tuesday schedule in effect	Monday schedule in effect

***It is critical that you form lab groups with students in your lab Section.**
Pick your lab group wisely as you will work with the same lab group during the entire semester.

5.7 Other Important Dates

Thursday, September 10th, 2020: First day of class (lecture).

Tuesday, October 13th, 2020: Fall Study Break Day - No classes scheduled.

Thursday, December 3rd, 2020: Last day of class (Tuesday schedule in effect).

Friday, December 4th, 2020: Last day to drop F20 one semester courses.

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6 Assessments

6.1 Marking Schemes & Distributions

Assessment of your final grade will be evaluated against four different assessment schemes as described in the table below with your **final grade assigned being the maximum calculated by the four schemes**. Scheme A uses the assessment weights aforementioned in the Assessments section of this outline. Schemes B, C and D allows students who performed poorly on one or both of the term tests to diminish the weight of the term tests by putting more weight on the final exam.

If you fail (< 50%) the combination of the two term tests AND the final exam, you will receive a failing grade in the course. This failing grade will be equal to the lower value of either: (i) the weighted average (based on Scheme A) of your individual assessments (two terms tests and final exam), or (ii) the weighted average (based on Scheme A) of all assessments.

Missed Assessments: If you are unable to meet an in-course requirement due to medical, psychological, or compassionate reasons, please email the course instructor. See the undergraduate calendar for information on regulations and procedures for Academic Consideration:
http://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-ac.shtml

Accommodation of Religious Obligations: If you are unable to meet an in-course requirement due to religious obligations, please email the course instructor within two weeks of the start of the semester to make alternate arrangements. See the undergraduate calendar for information on regulations and procedures for Academic Accommodation of Religious Obligations:
http://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-accomrelig.shtml

Name	Scheme A (%)	Scheme B (%)	Scheme C (%)	Scheme D (%)
Unmarked Assignments	0	0	0	0
Labs	20	20	20	20
Term Test 1	20	10	20	10
Term Test 2	20	20	10	10
Final Exam	40	50	50	60
Total	100	100	100	100

6.2 Assessment Details

Unmarked Problem Sets (0%)
Date: Thu, Sep 10 - Thu, Dec 3, 7 problem sets posted along with corresponding lecture modules on Courselink
Learning Outcome: 1, 2, 3, 4, 4

Labs (20%)
Date: Wed, Sep 23 - Fri, Nov 20
Learning Outcome: 5, 6, 7
Five lab reports submitted by each group. Due dates will be one week after the day the

scheduled lab day, and will be posted on CourseLink for each group. A grade of zero will be issued to any team member who does not contribute to completing the lab report.

As there are no in-person labs, there will not be any missed labs. If you are unable to contribute to writing a lab report **due to grounds for granting academic consideration** or **religious accommodation**, arrangements must be made with the teaching assistant to complete a makeup lab report at the end of the semester (last week of classes).

Term Test 1 (20%)
Date: Thu, Oct 15, 2:30 PM - Tue, Oct 20, 3:50 PM, Remote (online)
Learning Outcome: 1, 1, 2, 2, 4, 4
Closed book; covers material up to last lecture prior to exam.

Missed Term Test: If you miss a term test due to grounds for granting academic consideration or religious accommodation, the weight of the missed assessment will be added to the final exam. There will be no makeup term test.

Term Test 2 (20%)
Date: Tue, Nov 10, 2:30 PM - Tue, Nov 17, 3:50 PM, Remote (online)
Learning Outcome: 1, 1, 2, 2, 4, 4
Closed book; covers material up to last lecture prior to exam.

Missed Term Test: If you miss a term test due to grounds for granting academic consideration or religious accommodation, the weight of the missed assessment will be added to the final exam. There will be no makeup term test.

Final Exam (40%)
Date: Tue, Dec 10, 2:30 PM - 4:30 PM, TBA
Learning Outcome: 1, 2, 3, 4, 4
Closed book; covers entire course.

6.3 Midterm and Final Exams: Note

The midterm (term tests) and final exams will be closed book tests. Necessary equations and information (e.g. graphs, tables, unit conversions) will be provided or announced prior to each exam. Calculators are permitted, but they must be non-communicating devices.

The examinations will be delivered/completed remotely/online. As such, students are expected to behave ethically, which includes completing examinations individually and according to examination conditions set out. Students must agree to ethical guidelines stated on the cover page of the examinations, at the time of writing the examinations. Students found to not have followed these ethical guidelines will be subject to academic misconduct investigation.

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7 Course Statements

7.1 Remote/Online Teaching

The course is entirely delivered online/remotely this semester. As such, there is no expectation for students to be on campus during scheduled activities. Also, all interactions with course Instructors and Teaching Assistants, including office hours, must be done remotely, by email or video conferencing (Zoom or WebEx).

7.2 COVID Pandemic

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.

Illness

The University will not require verification of illness (doctor's notes) for the fall 2020 or winter 2021 semesters.

8 School of Engineering Statements

8.1 Instructor's Role and Responsibility to Students

The instructor’s role is to develop and deliver course material in ways that facilitate learning for a variety of students. Selected lecture notes will be made available to students on Courselink but these are not intended to be stand-alone course notes. Some written lecture notes will be presented only in class. During lectures, the instructor will expand and explain the content of notes and provide example problems that supplement posted notes. Scheduled classes will be the principal venue to provide information and feedback for tests and labs.

8.2 Students' Learning Responsibilities

Students are expected to take advantage of the learning opportunities provided during lectures and lab sessions. Students, especially those having difficulty with the course content, should also make use of other resources recommended by the instructor. Students who do

(or may) fall behind due to illness, work, or extra-curricular activities are advised to keep the instructor informed. This will allow the instructor to recommend extra resources in a timely manner and/or provide consideration if appropriate.

8.3 Lab Safety

Safety is critically important to the School and is the responsibility of all members of the School: faculty, staff and students. As a student in a lab course you are responsible for taking all reasonable safety precautions and following the lab safety rules specific to the lab you are working in. In addition, you are responsible for reporting all safety issues to the laboratory supervisor, GTA or faculty responsible.

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.
