ENGG*2230 Fluid Mechanics

01

Fall 2022
Section(s): C01

School of Engineering
Credit Weight: 0.50
Version 1.00 - September 06, 2022

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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:

Tuesdays		1:00PM – 2:20PM	ANNU 156
Thursdays		1:00PM – 2:20PM	ANNU 156

Tutorials (alternate weeks):	**Sections**		
Fridays	0101:	12:30PM – 2:20PM	THRN 1002
Fridays	0102:	8:30AM – 10:20AM	THRN 1002

Laboratory (alternate weeks):	**Sections**		

Fridays	0101:	12:30PM – 2:20PM	THRN 1125
Fridays	0102:	8:30AM – 10:20AM	THRN 1125

1.3 Final Exam

Monday December 12th, 7:00PM to 9:00PM, room TBA.

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2 Instructional Support

2.1 Instructional Support Team

Instructor: Rafael Santos Ph.D., P.Eng.
Email: santosr@uoguelph.ca
Telephone: +1-519-824-4120 x52902
Office: THRN 2342
Office Hours: TBA on Courselink or by appointment.

Lab Technician: Ryan Smith
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Telephone: +1-519-824-4120 x53278
Office: THRN 1114

2.2 Teaching Assistants

Teaching Assistant (GTA): Mehran Bozorgi
Email: mbozorgi@uoguelph.ca
Office Hours: TBA on CourseLink or by appointment.

Teaching Assistant (GTA): Joshua Toor
Email: jtoor01@uoguelph.ca
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) These are the two primary recommended (i.e., not required) textbooks:

"Fluid Mechanics", by Frank M. White , 9th Edition, McGraw-Hill, 2021, ISBN 9781260258318. https://www.mheducation.com/highered/product/fluid-mechanics-white/M9781260258318.html

"**Mechanics of Fluids, SI Edition**", by M.C. Potter, D.C. Wiggert, B.H. Ramadan. 5th Edition., Cengage, 2017, ISBN 9781337342698. https://www.cengage.ca/c/isbn/9781305637610/

Both textbooks are available from the publisher and the Bookstore, as hardcopy or as eBook. A hardcopy of the 8th Edition of F.M. White's Fluid Mechanics has 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: Schaum's is on reserve in the McLaughlin Library):

"**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, Chalkboard 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, and having an electronic or hard copy with you during your laboratory sessions. 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 (full or final answers) 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
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

#	Outcome	Learning Outcome
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. Cell phones are to be turned off during the class, ear buds are to be put away, and the use of laptops and tablets in class is restricted to taking class notes. 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 lectures, tutorials and labs will be delivered in-person and will not be

recorded (subject to changes if pandemic restrictions resume).

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 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

Week 3

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

Week 4

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 5

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 6

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 7-8

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 9

Topics:	Pumps and turbomachinery
References:	Chapter 11 of White (8th ed.); Chapter 12 of Potter et al. (5th ed.)
Learning Outcome:	1, 3

Week 10

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

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. Lab groups must be formed with students in the same section (0101/0102), unless otherwise needed to balance numbers. In addition, the sections will be divided into two batches of students of approximately equal size (designated as batches “A” and “B”). This A and B batch designation will indicate in which weeks you have a lab and in which weeks you have a tutorial, as per the schedule included in the course outline.

You must attend your scheduled lab on September 9th, 2022. At that time you will be introduced to the lab, including lab safety, and you will sign up for your lab groups and know in what batch your group is in. If you miss this first lab session, you are automatically in batch "B", will be placed in a group in the first tutorial, and will have alternate arrangement for the lab safety orientation.

Before arriving to the laboratory to perform an experiment, **each person must have read and understood the corresponding information in the lab manual** (available on CourseLink) and **must have watched the corresponding video** (also available on CourseLink). You are expected to do the intermediate calculations (and in some cases all of the calculations) before leaving the lab.

5.3 Lab Activities

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

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.

Each lab report is to include a raw data sheet of the data collected during the experiment (dated and signed by the TA), 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.

If you miss a laboratory **due to grounds for granting academic consideration or religious accommodation**, arrangements must be made with the teaching assistant to complete a makeup lab during open lab days (last week of classes).

5.5 Tutorials

The labs and tutorials will be conducted in alternating weeks during the same two-hour time blocks (labs in THRN 1125, and tutorials in THRN 1002). Everyone must attend your scheduled lab September 9th, 2022 (in THRN 1125). During this lab time, students will be familiarized with the Fluids Lab and the required safety procedures. In addition, the sections will be divided into two batches of students of approximately equal size (designated as batches “A” and “B”). This A and B batch designation will indicate in which weeks you have a lab and in which weeks you have a tutorial, as per the schedule included in the course outline.

5.6 Lab Schedule

	Fridays (Section 0101)	**Fridays (Section 0102)**
Sept. 9th	**Lab Day 0 (all students)**	**Lab Day 0 (all students)**
Sept. 16th	**Lab Day 1A**	**Lab Day 1A**
Sept. 23rd	**Lab Day 1B**	**Lab Day 1B**
Sept. 30th	**Lab Day 2A**	**Lab Day 2A**
Oct. 7th	**Lab Day 2B**	**Lab Day 2B**

Oct. 14th	**Lab Day 3A**	**Lab Day 3A**
Oct. 21st	**Lab Day 3B**	**Lab Day 3B**
Oct. 28th	**Lab Day 4A**	**Lab Day 4A**
Nov. 4th	**Lab Day 4B**	**Lab Day 4B**
Nov. 11th	**Lab Day 5A**	**Lab Day 5A**
Nov. 18th	**Lab Day 5B**	**Lab Day 5B**
Nov. 25th	Open lab day for makeup labs	Open lab day for makeup labs

Notes: It is critical that you form lab groups with students in your lab Section (last two digits).
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 8th, 2022: First day of class (first lecture).

Monday, October 10th, 2022: Holiday - No classes scheduled.

Tuesday, October 11th, 2022: Fall Study Break Day - No classes scheduled.

Thursday, December 1st, 2022: Tuesday schedule in effect (last lecture).

Friday, December 2nd, 2022: Last day to drop F22 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 and C allows students who performed poorly on one of the term tests to diminish the weight of a term test by putting more weight on the final exam. Scheme D allows students to drop the cooperative exercises (e.g., in case of repeated absences).

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: https://calendar.uoguelph.ca/undergraduate-calendar/undergraduate-degree-regulations-procedures/academic-consideration-appeals-petitions/

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: https://calendar.uoguelph.ca/undergraduate-calendar/undergraduate-degree-regulations-procedures/academic-accommodation-religious-obligations/

Name	Scheme A (%)	Scheme B (%)	Scheme C (%)	Scheme D (%)
Unmarked Assignments	0	0	0	0
Lab Reports	20	20	20	20
Cooperative Exercises	10	10	10	0
Term Test 1	20	10	20	20
Term Test 2	20	20	10	20
Final Exam	30	40	40	40
Total	100	100	100	100

6.2 Assessment Details

Unmarked Problem Sets (0%)

Date: Thu, Sep 8 - Thu, Dec 1, 7 problem sets posted along with corresponding lecture modules on Courselink

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

Labs (20%)

Date: Fri, Sep 16 - Fri, Nov 18

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. A grade of zero will be issued to any team member who does not contribute to completing the lab report.

You must attend and complete all laboratories. If you miss a laboratory due to grounds for granting academic consideration or religious accommodation, arrangements must be made with the teaching assistant to complete a makeup lab (i.e. during the 'open lab day').

Tutorial Cooperative Learning Exercises (10%)

Date: Fri, Sep 16 - Fri, Nov 18, THRN 1002

Learning Outcome: 1, 2, 3, 4, 7

4 out of 5 exercises will be considered the final grade assessment for this component; this will account for one absence (for any reason). There will be no makeup exercises; in case of repeated absences (for any reason), Scheme D of the Distribution Scheme chart will apply.

Term Test 1 (20%)

Date: Tue, Oct 4, 1:00 PM - 2:20 PM, ANNU 156

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

Closed book; aid sheet provided; covers material up to last lecture prior to exam (or as instructed by the instructor).

Missed Term Test: If you miss one 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. If you miss both term tests due to grounds for granting academic consideration or religious accommodation, you will be required to write a cumulative makeup term test (to be scheduled before the last day of classes) worth the weight of the combined term tests.

Term Test 2 (20%)

Date: Tue, Nov 8, 1:00 PM - 2:20 PM, ANNU 156

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

Closed book; aid sheet provided; covers material up to last lecture prior to exam (or as instructed by the instructor).

Missed Term Test: If you miss one 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. If you miss both term tests due to grounds for granting academic consideration or religious accommodation, you will be required to write a cumulative makeup term test (to be scheduled before the last day of classes) worth the weight of the combined term tests.

Final Exam (30%)
Date: Mon, Dec 12, 7:00 PM - 9:00 PM, TBA
Learning Outcome: 1, 2, 3, 4, 4
Closed book; aid sheet provided; covers entire course (or as instructed by the instructor).

6.3 Tests and Final Exam: Note

The term tests and final exam will be closed book assessments and held in-person in scheduled classrooms. Necessary equations and information (e.g. graphs, tables, unit conversions) will be provided or announced prior to each exam (i.e., an "aid sheet"). Calculators are permitted, but they must be non-communicating devices.

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7 Course Statements

7.1 Fluid Mechanics Lab

You must familiarize yourself with the lab equipment by reading the manual and watching the accompanying video prior to your lab, in addition to attending the safety orientation during your first scheduled lab session (see lab schedule in this outline). There is to be no food or drinks in the Fluids Lab. Pay especial attention to the labs rules for appropriate attire as **no open toed shoes (e.g. sandals) are allowed**.

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 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

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, changes in classroom protocols, and academic schedules. Any such changes will be announced via CourseLink and/or class email.

This includes on-campus scheduling during the semester, mid-terms and final examination schedules. All University-wide decisions will be posted on the COVID-19 website (https://news.uoguelph.ca/2019-novel-coronavirus-information/) and circulated by email.

9.10 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).

9.11 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.
