ENGG*3280 Machine Design

Fall 2018
Section(s): C01

School of Engineering
Credit Weight: 0.75
Version 1.00 - September 05, 2018

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1 Course Details

1.1 Calendar Description

This course provides the concepts, procedures, and analysis techniques necessary to design various mechanical elements commonly found in machines. Failure analysis such as yield criteria and fatigue are covered. Component design includes screws, fasteners, shafts, bearings and lubrication, and gears. The emphasis is on the use of readily available materials, standard component, and appropriate design approaches to achieve safe and efficient system design.

Pre-Requisite(s): ENGG*2120, ENGG*2160, ENGG*2230, ENGG*2340, ENGG*2450

1.2 Course Description

This course aims at: (1) equipping the students with an understanding of theory and practice of machine design, (2) developing the ability to integrate the knowledge that they have gained earlier in the previous two years in designing machine elements, (3) developing the ability to use analytical skills towards synthesis of solutions by working through the design of a mechanical device.

1.3 Timetable

Lectures:

Section 101, 102, 103: Monday, Wednesday, Friday, 03:30PM - 04:20PM RICH, Room 2529

Section 204, 205, 206: Monday, Wednesday, Friday, 11:30AM - 12:20PM, CRSC, Room 117

Tutorials:
Section 101: Mon 08:30AM - 11:20AM THRN, Room 1002
Section 102: Thur 02:30PM - 05:20PM THRN, Room 1002
Section 103: Wed 08:30AM - 11:20AM THRN, Room 1002

Section 204: Thur 08:30AM - 11:20AM THRN, Room 1006
Section 205: Tues 08:30AM - 11:20AM THRN, Room 1002
Section 206: Fri 08:30AM - 11:20AM THRN, Room 1002

1.4 Final Exam

December 13, 2018, 8:30 - 10: 30 AM

Location: TBD

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2 Instructional Support

2.1 Instructor(s)

Hari Simha
Email: csimha@uoguelph.ca
Telephone: +1-519-824-4120 x 58262
Office: THRN 3502
Office Hours: TBD

Amin Komeili
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Office: RICH 1509
Office Hours: TBD

2.2 Instructional Support Team

Lab Technician: Ken Graham
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Office: THRN 1021

Lab Technician: David Wright
Email: dwrigh02@uoguelph.ca
Telephone: +1-519-824-4120 x56706
Office: THRN 1023

2.3 Teaching Assistant(s)

Teaching Assistant: Scott Simmons
Email: ssimmons@uoguelph.ca
Office Hours: TBA

Teaching Assistant: Arshdeepsingh Sardar
Email: asardar@uoguelph.ca
Office Hours: TBA
NOTE: ALL TA OFFICE HOURS WILL BE HELD IN THRN 1425.

Teaching Assistant: Naveen Joshy
Email: njoshy@uoguelph.ca
Office Hours: TBA

Teaching Assistant: Claire Bourque
Email: cbourque@uoguelph.ca
Office Hours: TBA

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3 Learning Resources

3.1 Required Resource(s)

Course Website (Website)
https://courselink.uoguelph.ca
Course material, news, announcements, and grades will be regularly posted to the ENGG*3280 CourseLink site. You are responsible for checking the site regularly.

Machine Design: An Integrated Approach (Textbook)
R.L. Norton, 5th Ed. Prentice Hall, 2011.

3.2 Recommended Resource(s)

Shigley's Mechanical Engineering Design (Textbook)
9th Ed. McGraw-Hill, 2011.

Design of Machine Elements (Textbook)
M.F. Spotts, Pearson; 8 edition (October 24, 2003)

3.3 Additional Resource(s)

Lecture Information (Notes)
Some of the lecture notes will be posted on the course website (CourseLink) throughout the semester. You will be granted access to the website when you register for the course.

Assignments (Other)
Download the assignments according to the schedule given in the CourseLink website. All the solutions will be posted as indicated.

Miscellaneous Information (Other)
Lectures are the main source of material which includes important discussions and worked examples that might not be found elsewhere. Other information related to Machine Design are also posted on the CourseLink.

3.4 Communication and Email Policy

Please use lectures and tutorials as your main opportunity to ask questions about the course. Electronic communication should be limited to the course forum, however topics of a personal and confidential nature (e.g. marks) should be emailed to the instructor: csimha@uoguelph.ca. Please note that all email communication must be made through your University of Guelph email account.

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4 Learning Outcomes

4.1 Course Learning Outcomes

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

1. Formulate and analyze stresses and strains in machine elements and structures subjected to various loads.
   (a) Define the most critically stressed point in a machine component.
   (b) Analyze strains and deflections.

2. Specify appropriate tolerances for machine design applications.
   (a) Understand and to interpret tolerance on a dimension.
   (b) Acquaintance with ISO system of tolerances.
   (c) Specify an appropriate tolerance on machine components.
   (d) Specify a fit for mating parts considering functional requirements.
3. Apply multidimensional static failure criteria in the analysis and design of mechanical components.
   (a) Knowledge of various static failure criteria for different materials.
   (b) Apply static failure criteria in the design and analysis of machine components.
   (c) Analyze and design components with non-uniform cross sections.
4. Apply fatigue failure criteria in the analysis and design of mechanical components.
   (a) Knowledge of fatigue failure and load-life relation.
   (b) Knowledge of various fatigue failure criteria.
   (c) Apply fatigue failure criteria in the design and analysis of machine components under various loading conditions.
5. Analyze and design structural joints.
   (a) Acquaintance with the terminology, and types of permanent and detachable joints.
   (b) Design and analyze bolted joints.
   (c) Design and analyze power screws.
6. Analyze and design power transmission shafts carrying various elements with geometrical features.
   (a) Acquaintance with different types of shafts.
   (b) Design and analyze shafts with different geometrical features under various loading conditions.
   (c) Calculate critical speed of shafts and make the design decisions accordingly.
7. Design/select the material, mechanical condition and configuration of a variety of machine elements under a variety of environmental and service conditions. These would include: shafts, bearings, spur gears, springs, and screws.
8. The acquaintance with standards, safety, reliability, importance of dimensional parameters and manufacturing aspects in mechanical design.
   (a) Knowledge of standards for machine elements.
   (b) Understanding of safety and reliability concepts in the design of machine elements.
   (c) Minimize the characteristic dimension of a machine element.
   (d) An understanding of the influence of manufacturing processes in the design of machine elements.
9. Apply their skills to complete a major design project
   (a) Devise solutions for complex mechanical engineering problem.
   (b) Design mechanical linkage system including individual components that meet specified needs.
   (c) Utilize the basic machine shop tools such as lathe, milling, press drill, and welding.
10. Demonstrate their ability to communicate their design ideas through technical reporting and presentation.

(a) Justify a design project in a formal report.
(b) Perform and present design calculations in a neat and organized manner.
(c) Present the outcomes of the design in the form of engineering drawings

4.2 Engineers Canada - Graduate Attributes (2018)

Successfully completing this course will contribute to the following:

#	Outcome Set Name	Course Learning Outcome
1	Knowledge Base	1, 2, 3, 4, 5, 6, 7, 8, 9
1.1	Recall, describe and apply fundamental mathematical principles and concepts	1, 2, 3, 4, 5, 6, 7, 8, 9
1.2	Recall, describe and apply fundamental principles and concepts in natural science	1, 2, 3, 4, 5, 6, 7, 8, 9
1.3	Recall, describe and apply fundamental engineering principles and concepts	1, 2, 3, 4, 5, 6, 7, 8, 9
1.4	Recall, describe and apply program-specific engineering principles and concepts	1, 2, 3, 4, 5, 6, 7, 8, 9
2	Problem Analysis	1, 2, 3, 4, 5, 6, 7, 8, 9
2.1	Formulate a problem statement in engineering and non-engineering terminology	1, 2, 3, 4, 5, 6, 7, 8, 9
2.2	Identify, organize and justify appropriate information, including assumptions	1, 2, 3, 4, 5, 6, 7, 8, 9
2.3	Construct a conceptual framework and select an appropriate solution approach	1, 2, 3, 4, 5, 6, 7, 8, 9
2.4	Execute an engineering solution	1, 2, 3, 4, 5, 6, 7, 8, 9
2.5	Critique and appraise solution approach and results	1, 2, 3, 4, 5, 6, 7, 8, 9
3	Investigation	8, 9
3.1	Propose a working hypothesis	8, 9
3.2	Design and apply an experimental plan/investigative approach (for example, to characterize, test or troubleshoot a system)	8, 9
3.3	Analyze and interpret experimental data	8, 9

#	Outcome Set Name	Course Learning Outcome
3.4	Assess validity of conclusions within limitations of data and methodologies	8, 9
4	Design	1, 2, 3, 4, 5, 6, 7, 8, 9
4.1	Describe design process used to develop design solution	1, 2, 3, 4, 5, 6, 7, 8, 9
4.2	Construct design-specific problem statements including the definition of criteria and constraints	1, 2, 3, 4, 5, 6, 7, 8, 9
4.3	Create a variety of engineering design solutions	1, 2, 3, 4, 5, 6, 7, 8, 9
4.4	Evaluate alternative design solutions based on problem definition	1, 2, 3, 4, 5, 6, 7, 8, 9
4.5	Develop and refine an engineering design solution, through techniques such as iteration, simulation and/or prototyping	1, 2, 3, 4, 5, 6, 7, 9
5	Use of Engineering Tools	8
5.1	Select appropriate engineering tools from various alternatives	8
5.2	Demonstrate proficiency in the application of selected engineering tools	8
5.3	Recognize limitations of selected engineering tools	8
6	Individual & Teamwork	9
6.2	Understand all members’ roles and responsibilities within a team	9
6.3	Execute and adapt individual role to promote team success through, for example, timeliness, respect, positive attitude	9
6.4	Apply strategies to mitigate and/or resolve conflicts	9
6.5	Demonstrate leadership through, for example, influencing team vision and process, promoting a positive team culture, and inspiring team members to excel	9
7	Communication Skills	10
7.1	Identify key message(s) and intended audience in verbal or written communication as both sender and receiver	10
7.2	Interpret technical documentation such as device specification sheets, drawings, diagrams, flowcharts, and pseudocode	10
7.3	Construct the finished elements using accepted norms in English, graphical	10

#	Outcome Set Name	Course Learning Outcome
	standards, and engineering conventions, as appropriate for the message and audience	
7.4	Substantiate claims by building evidence-based arguments and integrating effective figures, tables, equations, and/or references	10
7.5	Demonstrate ability to process oral and written communication by following instructions, actively listening, incorporating feedback, and formulating meaningful questions	10

4.3 Relationships with other Courses & Labs

Previous and/or Current Courses:

- **ENGG*1210:** Mechanical system fundamentals such as force, moments, and free body diagrams
- **ENGG*1500:** Solving systems of linear equations, matrix algebra, and complex numbers
- **MATH*1200 & MATH*1210:** Limits, differentiation, integration, series expansion
- **ENGG*2120:** Properties of materials
- **ENGG*2230:** Viscosity, Bernoulli and continuity equation
- **ENGG*2340:** Kinematics, Dynamics, and gear analysis
- **ENGG*2400:** Second order system, natural frequency
- **ENGG*2450:** Fundamental circuit theorems

Follow-on Courses:

- **ENGG*4160:** Application of mechanical design principles
- **ENGG*4220:** Interdisciplinary Mechanical Engineering Design

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5 Teaching and Learning Activities

5.1 Lecture

Thu, Sep 6 - Fri, Sep 7

Topic(s): Introduction - Week 0

Mon, Sep 10 - Fri, Sep 14

Topic(s): Simple and combined stresses

Mon, Sep 17 - Fri, Sep 21
Topic(s): Static theories of failure

Mon, Sep 24 - Fri, Sep 28
Topic(s): Fatigue failure

Mon, Oct 1 - Fri, Oct 5
Topic(s): Shafts, keys, and couplings

Wed, Oct 10 - Fri, Oct 12

Topic(s): Material behavior, properties and selection (Thanksgiving week)

Mon, Oct 15 - Fri, Oct 19
Topic(s): Lubrication and journal bearings

Mon, Oct 22 - Fri, Oct 26
Topic(s): Roller bearings

Mon, Oct 29 - Fri, Nov 2

Topic(s): Gears - spur, helical, bevel and worm

Mon, Nov 5 - Fri, Nov 9

Topic(s): Welds and adhesives

Mon, Nov 12 - Fri, Nov 16
Topic(s): Screws, fasteners, and connections

Mon, Nov 19 - Fri, Nov 23

Topic(s): Design of Springs; Brakes and Clutches (if time permits)

Mon, Nov 26 - Fri, Nov 30
Topic(s): Fits and tolerances
Reference(s): Notes

5.2 Lab

Mon, Sep 10 - Fri, Sep 14

Topic(s): **Week1 Tutorial:** Simple stresses

Project: Goup formation and Introduction to use of Excel for design.

The labs are divided into two parts (the first half is for solving problem sets). The second half will be devoted to project activities. In some of the weeks there will deliverables pertaining to the project; If not, you are expected to work on the project, consult with the instructors and the TAs with regards to your project and its progress.

TAs will note the group members. No more than 4 members in each group and members are to be from the same section.

Mon, Sep 17 - Fri, Sep 21

Topic(s): **Week2 Tutorial:** Combined stresses

Project: Project proposal presentation - for the presentation use the project proposal document. No need to create an extra PowerPoint document.

For the project proposal, upload a 2-3 pager into dropbox. This is the first deliverable.

The cover page should have all of the details covered in the first lecture.

General guidelines on Project proposal

Orgaznize the document along the lines of **Background, Concept, Frabriction, Timeline, Costing, and Safety.** Items to be covered include:

1**.What?** What will you be doing. Brief description of the project

2.**Why?** Why is this important and why is it appropriate for the course and how does it meet the constraints specified in the course outline

3.**How?** How will you fabricate (general steps) the proposed device.

4.**When?** Approximate timeline (a bulleted milestone list will do)

5.**How much?** This will help with your lab fund ask.

6.**Concept:** At least a hand drawn, clearly labelled sketch. If your drawing skills are wanting, use a drawing program.

7. **Safety:** There are moving parts in the design. What are the design features for protection of the user and others from injury?

To be efficient - use the project proposal as a running document that you update as the project progresses.

In this course, we use sketch to mean the drawing is at least hand drawn, clear and well labelled

Mon, Sep 24 - Fri, Sep 28

Topic(s): **Week 3 Tutorial:** Static failure

Project: Project activity- with TAs, and instructors.

By this week you should have a concept, identify the loads, free body diagrams, detailed sketches of the assembly and individual components. Identify gaps in your knowledge. For instance, the lecture for shaft design will be later in the course. Indicate to the TAs or instructor that you do not know how to size a component or select materials. **It is your**

responsibility to seek help.

Start preparing the Excel sheets for the stress analysis of component design.

Mon, Oct 1 - Fri, Oct 5

Topic(s): **Week 4 Tutorial:** Fatigue failure

Project: Project activity- with TAs, and instructors.

By this week, you should have engineering drawings and a solid model. You should have completed the material selection and completed the excel design sheets. The detailed design should be 80% complete by this stage. If the TAs and instructors are satisfied with the design, you may start fabrication - Do not do so without their consent.

Mon, Oct 8 - Fri, Oct 12

Topic(s): **Week 5 Tutorial:** Thanksgiving week - no tutorials

Project: Project activity- with TAs, and instructors.

Start work on the interim progress report.

Continue fabrication if you have obtained consent from the instructors and TAs.

Mon, Oct 15 - Fri, Oct 19

Topic(s): **Week 6 Tutorial:** Shafts keys and couplings.

Project: Interactions with TAs and instructors.

Detailed design should be complete and documented and uploaded into dropbox by ***Oct. 19.***

This is the second deliverable and due Oct. 19.

Flesh out the project proposal with the work you have done uptill now. Add the assembly model, and engineering drawings, bill of materials and the excel sheets for stress analysis.

Continue fabrication if you have obtained consent from the instructors and TAs.

Mon, Oct 22 - Fri, Oct 26

Topic(s): **Week 7 Tutorial:** Journal Bearings

Project: Interaction with the TAs and instructors

Continue fabrication. This week, the TAs and instructors will inspect the effort so far; be ready for this.

Mon, Oct 29 - Fri, Nov 2

Topic(s): **Week 8 Tutorial:** Roller Bearings

Project: Interaction with TAs and Instructor.

Continue fabrication. If there are problems with your design and fabriction, seek help. It is your responsibility to do so.

Mon, Nov 5 - Fri, Nov 9

Topic(s): **Week 9 Tutorial:** Gears

Project: Continue fabriction.

70-80% of the fabrication should be completed.

Mon, Nov 12 - Fri, Nov 16

Topic(s): **Week 10 Tutorial:** Welds and adhesives.

Project: Continue fabrication.

The project should be ready for inspection by TAs, and instructors. Once the safety aspects are checked by the TAs and/or instructors, the device may be turned on.

Mon, Nov 19 - Fri, Nov 23

Topic(s): **Week 11 Tutorial:** Screws fastners and connections

Project: Interactions with TAs and instructors.

TAs and instructors inspect the fabricated device. Prepare for the trade show. A poster displaying you design and outcome is required.

Mon, Nov 26 - Fri, Nov 30

Topic(s): **Week 12 Tutorial:** Springs, brakes and clutches.

Project: Trade Show (Thursday 29th November)

Upload the poster and final report into dropbox. As before, update the detailed design report: drawings, detailed listing of costs and design assembly.

This is the final deliverable for the project and due on Nov. 30, 2018.

5.3 Important Dates

1. **Thursday, September 6, 2018:** First day of classes
2. **Monday, October 8, 2018:** Thanksgiving holiday
3. **Tuesday, October 9, 2018:** Fall study day, no classes
4. October 13 and November 10, 2018 - Mid terms
5. **Friday, October 19, 2018:** Project progress report due.
6. **Friday, November 2, 2018:** 40th class day, last day to drop classes
7. Thursday, November 29, 2018, Trade show.
8. **Friday, November, 30, 2018:** Final report for the project is due.
9. **Final exam - December 13, 2018.**

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6 Assessments

6.1 Marking Schemes & Distributions

Name	Scheme A (%)
Assignments	0
In Class Tests	40
Project	30
Final Exam	30
Total	100

6.2 Assessment Details

Assignments (0%)
9 unmarked assignments

Midterm 1 (20%)
Date: Sat, Oct 13
Mid term 1 - Simple and combined stresses, static and fatigue failure, and material selection. The exam will be 1.5 hours long. This exam is 20% of the grade.

Midterm 2 (20%)
Date: Sat, Nov 10
Mid term 2 - Shafts, keys, couplings. Journal and roller bearings.

The exam will be 1.5 hours long. This exam is 20% of the grade.

Final Exam (30%)

Date: Thu, Dec 13, 8:30 AM - 10:30 AM, Room TBA on WebAdvisor

Project (30%)

The project is 30% of the course. The break down is as follows.

1. Project pitch 10%
2. Detailed design 30 %
3. Final Report. 20 %
4. Final device 30 %
5. Poster 10 %

Friday, October 19, Project interim report due

Friday, November 30, Project final report due

Thursday, November 29, Trade show.

6.3 Notes on the exam

You will need appendices from Norton for the exam.

It is your responsibility to bring either the book or the appendices to the exam.

All of the mid terms and exams will be open book. You may bring the text by Norton to the exams.

You may bring a formula sheet - one A4 sized sheet with writing on both sides. Be advised that Norton has a end-of-chapter compilation of the relevant formulas.

6.4 Course Grading Policies

Academic Consideration: 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 Consideration of Religious Obligations: http://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-accomrelig.shtml

Passing Grade: The exam portion (2 Tests + Final Exam) accounts for 70% of the total mark of the course. The project portion accounts for 30% of the total mark of the course. In order to pass the course, you must meet the following two criteria:

- Score 35% or higher out of the 70% allocated to the exam portion of the course.
- Score 15% or higher out of the 30% allocated to the project portion of the course.

Failure to meet any of the two criteria will result in a failure grade (your total mark or 49%, whichever is less).

Missed Tests: If you miss a test due to grounds for granting academic consideration or religious accommodation, the weight of any missed test will be added to the final exam weight. There will be no makeup quizzes, tests, or midterm.

Questions Concerning Grades: If you have questions about the grade of your quiz or test received, please ask your TA within one week of the document being returned. However, all requests for re-marking must be made to the instructor and accompanied by a completed re-marking request form (found on CourseLink). Any item that is re-marked will be re-marked entirely. Therefore it is strongly suggested that you thoroughly review your entire document before making a re-marking request. Pencil-written works will not be re-marked. Re-marking requests will not be honoured more than one week after the document has been returned.

Project Work: You must attend oral presentations and submit all project milestone reports. If you miss a project report due to grounds for granting academic consideration or religious accommodation, arrangements must be made with the teaching assistant to submit the missed report. Late submissions of reports will not be accepted.

Machine Shop Safety Test: Failure to write and pass this test will result in an automatic loss of privilege to work in the machine shop area and a 0% mark for the project part of the course and failure in the final grade.

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7 School of Engineering Statements

7.1 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.

7.2 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.

7.3 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.

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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 regulations and procedures for Academic Consideration are detailed in the Undergraduate Calendar.

8.3 Drop Date

Courses that are one semester long must be dropped by the end of the fortieth class day; two-semester courses must be dropped by the last day of the add period in the second semester. The regulations and procedures for Dropping Courses are available in the Undergraduate Calendar.

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

More information: www.uoguelph.ca/sas

8.6 Academic Misconduct

The University of Guelph is committed to upholding the highest standards of academic integrity and it is the responsibility of all members of the University community – faculty, staff, and students – to be aware of what constitutes academic misconduct and to do as much as possible to prevent academic offences from occurring. University of Guelph students have the

responsibility of abiding by the University's policy on academic misconduct regardless of their location of study; faculty, staff and students have the responsibility of supporting an environment that discourages misconduct. Students need to remain aware that instructors have access to and the right to use electronic and other means of detection.

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.

The Academic Misconduct Policy is detailed in the Undergraduate Calendar.

8.7 Recording of Materials

Presentations which are made in relation to course work—including lectures—cannot be recorded or copied without the permission of the presenter, whether the instructor, a classmate 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 which apply to undergraduate, graduate and diploma programs.
