

**UNIVERSITY OF TORONTO**  
**Faculty of Applied Science and Engineering**  
**Course Information**

***CIV100F and APS160F – “MECHANICS”***

**Course:** CIV100F is the in-person option of the course. All students are initially registered in this course. APS160F is the optional online option of the course. Students are encouraged to enroll in the online option to experience a more technologically advanced method of course delivery (refer to F.1).

**Lecturers:** Course Coordinator: Prof. M. Seica  
 Section 1: Prof. M. Seica                      Section 4: Prof. O. Mercan                      Section 7: Prof. D. Panesar  
 Section 2: Prof. M. Seica                      Section 5: M. Haghighi                      Section 8: C. Pavlidis  
 Section 3: Prof. T. El-Diraby                      Section 6: Prof. S. Saxe                      Online: Prof. M. Seica

**Teaching Assistants:** Two TAs will be assigned to each tutorial section.

**Lectures:** Most subject matter and new concepts will be disseminated:

- CIV100F: In class/person. Refer to ACORN for up-to-date timetable and location.
- APS160F: No classroom lectures. Online videos will be made available on Quercus on a weekly basis, on Saturdays at 00:05, for asynchronous delivery.

**Support:** **Tutorials** (and *optional* Additional Help sessions) will be provided:

- CIV100F: In class/person. Refer to ACORN for up-to-date timetable and location.
- APS160F: Exclusively through online communication tools (MS Teams & Piazza).
- Refer to the specific details published in each individual course section site(s) on Quercus.
- E-mail communication is not acceptable. Do NOT send e-mails to the Teaching Team.

<b>Basis of Final Grade:</b>	Weekly Assigned Problem Sets	= 5%
	Quizzes	= 10%
	Midterm Examination	= 35%
	<u>Final Examination</u>	= 50%
	Total	= 100%

**Calculators:** A scientific calculator is extremely valuable for this course. The following non-programmable calculators are approved by the Faculty of Applied Science and Engineering, and are mandatory. **Absolutely no other calculator model will be permitted at tests.**

- **Casio FX-991** (any suffix is acceptable)
- **Sharp EL-W516**, or **EL-520** (any suffix is acceptable)

**Required Text:** Hibbeler, R.C. “*Engineering Mechanics: Statics*”, 15<sup>th</sup> Edition, SI Units, Pearson Education (eText and optional Mastering Engineering). Students can purchase the eText version or the hard copy from Pearson Education, the UofT Bookstore, the Engineering Stores, or from elsewhere. **Students in APS160F must purchase access to Mastering Engineering from Pearson Education, either as a package with the textbook, or separately.** Complementary Notes on additional topics (some optional), not covered in the textbook, will be available for download from Quercus. Second-hand (i.e. used) textbooks are acceptable; other/older editions of the textbook are not.

**Course Content:** Refer to the additional handout, posted on Quercus.

**Course Website:** Quercus will be used extensively, including for posting of course material, communications and listing of unofficial marks.

There are two course shells available for **CIV100F: Lectures and Tutorials**. Each shell contains dedicated modules for each Lectures section (e.g. LEC0101, LEC0102,..., LEC0108) and Tutorials section (e.g. TUT0101, TUT0102,..., TUT0122). Important information relevant to the students in all sections will be posted and section-specific material and activities will be disseminated and conducted.

There is a general course shell with comprehensive instructions and lecture material intended for **APS160F** students (APS160F ONLINE). It is important that APS160F students read and become familiar with the *relevant* instructions posted there. In addition, the CIV100F Lectures shell will also be available.

### **Notes about the Assigned Problem Sets, Quizzes and Examinations**

#### *A. Assigned Problem Sets*

**A.1.** Assignments must be done neatly, in pencil, on one side only of the paper. Engineering problem paper, which is sold in pads by the Engineering Stores located in the basement of the Sandford Fleming Building is strongly recommended. Other paper, preferably quad ruled, will be accepted only if engineering paper cannot be sourced. **Digital engineering paper for computers and tablets is acceptable.** A straight edge is required for drawing lines, but scales and protractors are not mandatory. A good eraser is invaluable. Lack of neatness will be promptly penalised.

**A.2.** The assigned problem sheet will be posted on Quercus, on a weekly basis. Details will be announced in Quercus. The solution, excluding the problem sheet, must include the final answer(s), clearly identified, together with all the necessary diagrams and calculations.

**A.3.** The completed assignments must be submitted by uploading the solution in PDF format on Quercus. Late submissions will normally not be accepted and assessed.

**A.4.** Each assigned problem set will contain four or more problems which **all** must be attempted. Up to 5 marks will be awarded for one question only, selected randomly. If one or more questions are not attempted reasonably, a mark of zero will be assigned instead. The marks obtained will be posted on Quercus.

**A.5.** The purpose for the assignments (non-closely supervised tests) is to practice problem solving in preparation for the common closely supervised tests. The assignments represent a bare minimum and, for achieving success in the course, additional problems can be found in the textbook and elsewhere.

#### *B. Quizzes*

##### **CIV100F Students**

**B.1.** There will be two half-hour, in-person quizzes, scheduled on 23 September and 11 November (*subject to change*). Details will be announced in due course in the CIV100F Lectures section.

### APS160F Students

**B.2.** Weekly quizzes will be ½ hour long and will be held online using an automated online system (Mastering Engineering). They will be on the same topic as the problem set assigned in the previous week.

**B.3.** The quizzes will be made available on Wednesdays by 20:00 EDT/EST and must be completed by the following Monday at 20:00 EDT/EST. The problems, although similar for all students, may have the data randomized. Students will have two attempts to submit their answers within the time allocated.

**B.4.** Each quiz will be marked out of 10 marks. At the end of the term, one quiz score (the lowest) will be dropped for each student. The marks obtained will be posted on Quercus.

### *C. Midterm Examination*

**C.1.** The midterm examination will be conducted in person, will be 1-½ hours long, and is scheduled on Thursday, 23 October (*subject to change*). Details will be announced in due course in the CIV100F Lectures section.

**C.2.** The midterm examination is common for all CIV100F and APS160F students.

### *D. Term Work Re-mark Requests*

**D.1.** Any requests for re-marking of term work shall be submitted by filling in and submitting / uploading a Quiz & Test Re-mark Request Form available on Quercus (CIV100F Lectures), clearly indicating the reasons why the student believes a re-evaluation is necessary.

**D.2.** The form must be submitted to the Teaching Assistant responsible for grading the work considered. Additional details will be provided in due course.

### *E. Final Examination*

**E.1.** The final examination will be conducted in person and will be 2-½ hours long. The date, time and location for the examination will be published by the Registrar's Office (see ACORN) in early November.

**E.2.** The final examination is common for all CIV100F and APS160F students.

### *F. Miscellaneous*

**F.1.** For all administrative questions, including requests to enroll in APS160F (online), please contact the [First-Year Office](#).

**F.2. Important:** This course requires the use of computers and IT equipment, and relies on a fast and stable Internet connection, and many things can go wrong when using such devices and services. You are responsible for ensuring that you maintain regular backup copies of your files, use antivirus software (if using your own computer), maintain a reliable connection to the Internet and schedule enough time when completing your homework and tests, in order to allow for potential delays due to technical difficulties. Computer viruses, crashed hard drives, broken printers, lost or corrupted files, incompatible file formats, disconnection from the Internet and similar mishaps are common issues when using technology, and are not acceptable grounds for deadline extensions. (*Note: If an unexpected technical issue occurs with a university system (e.g. Quercus) that affects its availability or functionality, it may be necessary to revise the timing or weighting of the assessments.*)

**F.3.** The University of Toronto has made efforts to ensure that students are able to access the online tools which are necessary for the successful completion of the course. In an unlikely event that this access may be impeded, such a situation will be evaluated and resolved on an individual and specific basis.

**F.4. Video recording and sharing:** This course is pre-recorded and/or will be recorded on video, including student participation, and will be available to the students in the course for viewing remotely and after each session. All course videos and materials belong to the course instructor, the University and/or to other sources, depending on the specific conditions of each situation, and are protected by copyright. Do not download, copy, or share any course or student materials or videos without the explicit permission of the instructor. For questions about recording and use of videos in which you may appear, please contact your instructor.

**F.5. A final note:** Plagiarism is a serious academic offence; sanctions can range from a zero mark to expulsion from the university programme and a note on the transcript. While student collaboration is encouraged, note that plagiarizing the work for assignments, quizzes and examinations will defeat the educational purpose of these tests. Without adequate training, study and practice, a successful performance in the course will be in jeopardy.