	FACULTY OF ENGINEERING AND APPLIED SCIENCE ENGI 1010 MECHANICS I - STATICS	
	Dr. Geoff Rideout, Ph.D., P.Eng.	Class of 2013B, Fall 2008

PROFESSOR CONTACT INFORMATION

Office: EN3067

Phone: 737-3746

Web Site: <http://www.engr.mun.ca/people/grideout.php>

Course Web Site and Email: To access the on-line resources for the course (including handouts, assignments, discussion, and email), go to

<http://online.mun.ca> (login using your my.mun.ca username and password)

Click on ENGI1010 under “My Memorial University of Newfoundland Courses”

You must email me via the Desire2Learn course email, and NOT via my regular @mun.ca email. I will not respond to course-related emails directed to my @mun.ca email. You will not receive email replies to your @mun.ca email or any other email account such as gmail or hotmail. You must log onto online.mun.ca and access the course shell for ENGI1010 to read email replies.

TEXTBOOK

Engineering Mechanics Statics and Dynamics, 11th Edition

R.C. Hibbeler; Pearson Prentice Hall (ISBN 0-13-221509-8)

LECTURES: Monday, Wednesday, Friday: 9:00-9:50, EN2006

TUTORIALS: Tuesday 9:00-9:50, EN2043 (Section 1, CRN51970)

Tuesday 10:00-10:50, EN2043 (Section 2, CRN51971)

OFFICE HOURS: Monday, 3:00-4:00; Wednesday 2:00-3:00; or by appointment

TEACHING ASS'TS: TBA

HELP CENTRE: Thursdays, 2:00-4:30 PM, location TBA

TOPICS COVERED


Statics is the study of bodies that are at rest or moving at constant velocity – bodies in *equilibrium*. Statics is a very important course because many objects are designed to remain in equilibrium. A thorough understanding of statics is critical to success in future courses such as rigid body dynamics, fluid dynamics, mechanical design, structural analysis, ship design, and electromechanical devices.

- Introduction and General Principles (Ch.1: Sections 1.1–1.6)
- Force Vectors (Ch.2: Sections 2.1–2.9)
- Particle Equilibrium (Ch.3: Sections 3.1–3.4)
- Force System Resultants (Ch.4: Sections 4.1–4.7, 4.10)
- Rigid Body Equilibrium (Ch.5: Sections 5.1–5.6)
- Structural Analysis (Ch.6: Sections 6.1–6.4 & 6.6)
- Internal Forces (Ch.7: Section 7.1)
- Friction (Ch.8: Sections 8.1–8.3)

ONE OF THE MOST IMPORTANT CONCEPTS, WHICH WE WILL TRY TO RAM DOWN YOUR THROATS, IS FREE BODY DIAGRAMS. UNDERSTANDING AND BUYING INTO FREE BODY DIAGRAMS WILL MAKE THE NEXT FEW YEARS OF YOUR LIVES EASIER.

METHOD OF EVALUATION

There will be 4 quizzes (with the best 3 marks counting towards your final grade), 1 mid-term examination and 1 final examination. The 4 quizzes will occur during the tutorial sessions. **Know your section (1 or 2), and when your tutorial is.** Two grading schemes are given below, with

	FACULTY OF ENGINEERING AND APPLIED SCIENCE ENGI 1010 MECHANICS I - STATICS	
	Dr. Geoff Rideout, Ph.D., P.Eng.	Class of 2013B, Fall 2008

different values given to the final exam and midterm. I will calculate your final grade using both Scheme A and B, and give you the higher grade.

Method	% Final Grade		Tentative Dates			
	Scheme A	Scheme B				
Quizzes	15	15	Quiz 1	Quiz 2	Quiz 3	Quiz 4
			Sep. 23	Oct. 7	Nov. 4	Nov. 18
Mid-Term Exam	25	10	Thursday, Oct. 23, 8:30-9:45 AM (tentative)			
Final Exam	60	75	To be announced.			

QUIZ/EXAM POLICIES: Only simple scientific calculators are permitted in all quizzes and examinations. Programmable calculators with text storage and graphics capabilities, as well as other aids (books, notes, formula sheets [except as noted below], electronic translators and devices, etc.) are NOT allowed. Unauthorized use of the above aids or devices during quizzes and examinations will be considered as an academic offence.

Students are expected to maintain academic integrity in the course and in the Engineering program. Cheating on quizzes, and examinations will be dealt with in accordance with the procedures outlined under Academic Misconduct in the University Calendar.


Formula sheets will be provided for the quizzes, Mid-Term, and Final Exam. These will be posted about 48 hours in advance so you can study them.

PROBLEM SETS AND ASSIGNED READINGS: Over the course of the semester, sets of problems from the text will be handed out to help you prepare for quizzes and exams. These will not be graded. Numerical answers will be given with the problems, but solutions will not be posted until after the quiz or exam. **Consistent effort in solving these problems, and asking questions about them in office hours and tutorials, will likely be critical to your success in the course.**

REGRADE POLICY: I'll take care of obvious addition errors immediately. When a test or exam is returned, I will accept written requests for regrades after the next class. This gives people a chance to cool down after a disappointing score, or get clarification in office hours about concepts that were not understood. The only way a grade will be changed is if your paper is found to have been graded in a manner not consistent with other papers in the class.

WHAT I EXPECT OF YOU AS STUDENTS: I expect you to attend class except during extenuating circumstances. Please pay attention and don't disturb your neighbours by talking. Don't hesitate to ask me any questions if something is confusing or if you can't read what I've written on the board. I expect you to arrive on time so we can start the lecture on time, and not start packing your books before the end of lecture. Arriving a few minutes late if you have to walk across campus is fine, but remember, **if you enter the room and the prof is talking, then you're late, and you must find a seat quietly.**

WHAT YOU SHOULD EXPECT OF ME AS AN INSTRUCTOR: You are entitled to a clearly-presented, organized lecture that begins and ends on time. You can expect me to respond within a day to emails. You can expect me to be patient with your struggles during office hours, and appreciative of questions, comments, or corrections in class. If you ask me something in class that I can't answer, then I'll find an answer and get back to you by email or in the next class.

 MEMORIAL UNIVERSITY	FACULTY OF ENGINEERING AND APPLIED SCIENCE ENGI 1010 MECHANICS I - STATICS	
	Dr. Geoff Rideout, Ph.D., P.Eng.	Class of 2013B, Fall 2008

BRIEF INSTRUCTIONS ON COMPOSING AN EMAIL ON DESIRE2LEARN

For a narrated web tutorial, go to:

<http://www.distance.mun.ca/current/d2l/e-mail.htm>

or do the following:

1. Go to the course home page (login at online.mun.ca).
2. Click the "Email" button on the green Course Home navigation bar at the top.
3. Click on "Compose"
4. Click on "Address Book", search for "Rideout". I should be one of the hits you get.
5. Check the box next to my name, and click "To".
6. Click on "Add Recipients" in the lower right of the Address Book box to add my address to the "To" field of your email.
7. Compose away.

You can also click on "Classlist", search for "Rideout", select my name from the list, and click on the little envelope icon that allows you to "Email selected users in a new window".

A

C

B

D