Text

- The textbook is *Calculus, Early Transcendentals* by James Stewart. Volume 6E, Thompson Brooks-Cole publishing.
- We will be using the Enhanced Webassign system for online homework.
- Purchasing information is available here.

Course Description

This class is designed for students with previous experience with calculus. The course covers the topics in the first two semesters of the standard calculus sequence as well as topics geared towards science and engineering applications. The course stresses the theory of calculus and its applications in science and engineering. You will be asked to review and to learn some of the more computational techniques of calculus on your own. This class is part of a long-term effort involving Mathematics and Engineering faculty, all of whom are committed to its success.

Classes

- Lecture B (Professor Ahlgren) meets MWF, 12 pm, 100 MSBE.
- Lecture C (Professor Laugesen) meets MWF, 1 pm, 151 Loomis Lab.
- You must be enrolled in one of the small sections attached to your lecture; they meet twice a week, on Tuesday and Thursday.
- You must be enrolled in Math 299, which gives you an extra hour of credit. Math 299 has no course meetings, and your grade will be the same as that for Math 231.

You are expected to attend each class meeting.

Exams

Mark these exam dates on your calendars now:

- Midterm 1: during class, Wednesday, September 15.
- Midterm 2: 7:15-8:15 pm, Monday, October 11.
- Final: 8-11 am, Monday, December 13.

Midterm 1 is given early in the semester and carries less weight. Locations for Midterms 2 and 3 and the Final will be announced later. Calculators may not be used on exams.

Conflict exams

- If you have a conflict with one of the two evening midterms, please read the university policy on evening exams.
- If you have a conflict with the final exam, please read the university policy on final exams.
- In particular, in case of a conflict with another exam, please give the course number, exam time, and the name and email address of the instructor of the other course. Your professor will respond with "conflict exam" information.

Missing exams

- Vacation and leisure plans are never a valid excuse for missing an exam or other assigned work.
- Certain activities (e.g. participation in intercollegiate athletics) count as legitimate reasons for missing assigned work.
- If you miss an exam due to sickness or an emergency, you must get a note from the Emergency Dean. We retain the right to decide how to handle these cases.
- Always notify your professor before missing an exam or assigned work, to explain the reason and to present your documentation.

Academic integrity

- Violations of academic integrity (for example, cheating on exams) will be taken extremely seriously, and will be handled under the procedures of Article I, Part 4 of the student code.
- Please note that some of the penalties outlined in the Student Code are quite unpleasant.
- Looking at another student’s exam counts as cheating, whether or not you gain any benefit.

Online homework

Online problems will be assigned frequently through the webassign system. These give you practice and feedback on the basic course material.

Written homework

Written homework problems will be collected at each small section. These give you practice with important theoretical and applied topics.
Small sections and worksheets

- On Tuesdays and Thursdays you will meet with your TA in a small section. You will turn in homework at the beginning of the section. There will be an opportunity to ask questions about upcoming homework. For the rest of the section you will work in small groups on worksheets, which will be collected at the end of discussion and graded. It is essential to work well with your teammates: your instructor will grade one worksheet chosen at random from each group, and every member of the group will receive that grade.
- Attendance is mandatory. You must arrive at the small section on time. If you arrive late, then your homework will not be accepted, and you will not be permitted to join the discussion or work on the worksheet.

Dropped scores

The following scores will be dropped: your lowest two online homework scores, your lowest two written homework scores, and your lowest two worksheet scores.

Missing class work

- If you have an excused absence due to illness or other emergency (documented by a note from McKinley health center or the Emergency Dean), then your missed homework or worksheet may be dropped without counting toward your two lowest scores.
- Contact your professor (not your TA) to present your excuse and documentation. We retain the right to decide whether the emergency counts for this purpose.

Grading

Your course total will be computed as follows. Information about grade distributions (the "curve") will be provided after each midterm exam.

- Online homework: 6%
- Written Homework 6%
- Worksheets: 10%
- Midterm 1: 8 %
- Midterm 2: 20%
- Midterm 3: 20%
- Final: 30%
- TOTAL: 100%

Your work on the homework and worksheets is crucial to your success in the course. Material covered on the exams will strongly reflect material which has been covered in homework and the worksheets.

Course WIKI

- This syllabus and other course information can be found on the course wiki page: https://wiki.cites.uiuc.edu/wiki/display/MATH231BC.
- This simpler url works equally well: http://go.illinois.edu/math231bc.
- Bookmark that website today, and explore it thoroughly before the next lecture.

Office hours and tutoring

Will be listed on the course wiki page.

Final note

Welcome to the University of Illinois and to the engineering sections of Math 231. All of us are committed to helping you realize your potential in this course. We encourage you to contact any of us with concerns or comments about the class. You will be expected to work hard during the course. We hope that you find this work rewarding. Best wishes for a productive and enjoyable semester!