

1. INSTRUCTOR AND TEXT

My Name: Peter Loeb

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Office Hours: M. W. F. at 12 p.m. **right after class** in Room 219 of Altgeld Hall or by appointment.

The Lectures are M. W. F. at 11 p.m in Altgeld Hall Room 314.

Text: Calculus, Early Transcendentals Version, sixth edition, by Edwards and Penney.

2. THE IMPORTANCE OF THIS COURSE

Calculus provides both the language and the methods for more than half of the courses on this campus. To succeed in those courses and in later work, you should learn, and retain, the material of this course at a B level or better. For this to occur, you need to work lots of problems, and digest the ideas that are involved in solving the problems. To help you digest and retain these ideas, we will present in these lectures not only the facts of calculus, but also give some explanation as to why these are facts. This includes using the operations of calculus to derive other facts about the calculus. Understanding the explanations will help you connect and retain the material of the course. Since later material in Math 220 depends on earlier work, you should not fall behind. Keeping up makes all the difference between, on the one hand, understanding what is being said so that you are able to apply it, and on the other hand, just hearing gibberish.

Students who have had some previous calculus tend to coast on what they remember until they wake up to find that they are far behind. I hope we can avoid this problem since I will present the material in a way that is different from the high school courses. This means to succeed in the course, you should pay close attention from the beginning.

3. COURSE GRADE

3.1. Mid-Term Examinations. There will be four mid-term examinations. The dates are: Fri. Sept. 15, Fri. Oct. 6, Fri. Oct. 27, and Fri. Nov. 17. Each exam. will be worth 100 points. Every student is expected to take every examination. An unexcused absence from an examination will count as 0. For an excused absence, there may be an oral examination to make up the grade. You will need to see me to get an excused absence. Only the most dire situations will excuse a student from an examination. This applies in particular to the examination on November 17 before Thanksgiving break.

There will be review sessions the evenings before mid-term examinations. The sessions will be from 7 to 9 p.m. in Room 343 and also, if there is an overflow, in Room 341 and 345 of Altgeld Hall.

3.2. Final Examination. The final examination is worth 200 of the total 800 points for the course. It is on Monday, December 11 from 8:00 a.m. to 11:00 a.m.

3.3. Homework. Homework for the course is done on the internet using PH Grade-Assist. With this program, assignments are graded online to give you immediate feedback. Notes on how to register for this part of the course and how to work the homework are at the class web site given on Page 2 of this handout. In registering for the homework, please put in your name using capital letters only for the first letter of your first, last, and if you like, middle initial or middle name. For example, "Peter Loeb" or "Peter A. Loeb". The class ID is **Math220DFall06**. Once you are registered online, the web address for the homework is as follows:

<http://phga.pearsoncmg.com/phga/classes/Math220DFall06/>

The homework results will be scaled so that the graded homework will contribute at most 100 out of the total 800 points for the course. You will go over the homework in your discussion sections.

You may work the homework problems as many times as you like until the deadline; it is your best score that counts. If you want to print out the problems, you can do so before working them.

3.4. Written assignment. Each Wednesday, I will assign a problem that will be handed in to your section leader in the first discussion section of the next week. The problem will be graded in terms of the steps you take to reach a solution as well as for the solution. You should write out your solution carefully. At the end of the term, your scores will be added with the bottom 2 scores being dropped. The total will be scaled so that they add at most 50 points to the total of 800 points for the course. To be counted, your solution must be handed in at the time of your discussion section.

3.5. Quizzes for discussion sections meeting Tuesday and Thursday. Every Thursday, except the day before an exam, there will be a short quiz at the end of the hour on the material covered by the homework up to the previous Tuesday. At the end of the term, these scores will be totaled with the bottom 2 scores being dropped. The result will be scaled so that the quizzes will contribute 50 out of the total 800 points for the course. You do not need an excuse to miss a quiz, but there will be no makeup quizzes.

3.6. Final Grade. You are guaranteed at least an A- for the course if you have 90% or more of the total 800 points at the end of the term. Similarly you are guaranteed at least a B- if you have at least 80% but less than 90%, a C- if you have at least 70% but less than 80%, and a D- if you have at least 60% but less than 70%. The grades may be more generous than that, and an improving trend during the course may be taken into account in assigning your final grade. After each midterm exam, I will give some idea of the correspondence between the scores and letter grades; I consult that pattern in assigning the final grade. It is, however, the total scores that are used in assigning the final grade.

4. MATERIAL COVERED

We will cover most of the material in the first six chapters of your text.

5. CALCULATORS IN QUIZZES AND EXAMINATIONS

You will only be allowed to use four function calculators in quizzes and examinations. These cost less than \$10. More powerful calculators can integrate and differentiate, and these skills are part of the course. Cell phones may not be used. For homework, you may use whatever calculator or computer you have.

6. CLASS NOTES

I will prepare notes for my lectures. These are mainly an outlining for myself of what I want to say. You should find them helpful, especially if your algebra skills are not yet fully developed and you need more time to follow each step. I will post the notes on a web site as Acrobat PDF files. The address is

www.math.uiuc.edu/~loeb/math220/