

MATH 140
CALCULUS FOR BUSINESS
WINTER 2014

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Topics to be covered

Limits, continuity, derivatives by definition, general rules, and implicit methods with applications of derivatives, exponential and logarithmic functions and their applications, anti-derivative and basic integration. Fundamental Theorem of Calculus, area between curves, methods of integration includes substitution, parts, and numerical integration, improper integrals. Calculus of several variables including partial derivatives, extrema problems including Lagrange Multipliers. Multiple variable integration. Solving ordinary differential equations by method of separation of variables.

Materials Required

Text: *Calculus for Business, Economics, and the Social and Life Sciences. 11th Edition, by Hoffman, Bradley, Sobecky and Price.*

Calculator: *A scientific or graphing calculator*

Quizzes

There will be about 5 quizzes. All quizzes are consisting of problems similar to the homework and examples in lectures. There will be no makeup quizzes. At the end of the semester, the highest 4 quiz grades will be used.

Exams

*There will be two exams. You will be allowed at most one makeup exam but only for extreme circumstance. **If you will be unable to take an exam at the scheduled time, you must contact me before the day of the exam to request a makeup exam.** The exams will test your understanding of the concepts covered in the course. Most of the questions on these exams will require showing a significant amount of work to justify your answer. A correct answer with no work shown will be given a zero. The exams will also require you to explain and interpret your results. **Do Not Miss the Exams.***

Homework

The completion of daily homework is critical to your success in this course. There will be about 5 homework assignments, each counting 10 points that will be collected on Tuesday. **Late homework will not be accepted**, even if you are absent. If you do not turn in assignment on time, you will receive a zero. On each assignment, a small selection of problems will be graded for a few points; the remaining points will be given for the completeness of the assignment. In order to receive credit for “completeness,” an honest attempt must be made on each problem. At the end of the semester, the highest 4 scores will be used, for a homework total of 40 points.

Most of the homework problems will be related to topics discussed in class; some will ask you to try something we didn't talk about. You should be able to reconcile most difficulties with the homework before class. Please make good use of the tutoring services on campus, and each other. While you may discuss these homework problems (as well as all others) with other students in the class or with me, the solutions turned in should for the most part be your own work. You should not write up solutions as a group.

It is very important both for your understanding of the material and for preparing for exams that you work all the assigned problems as soon as the material is covered in class.

Grading

Your semester course grade will be determined by your percentage of the total points possible. You should keep an accurate record of your grades. I will provide information on your grade standing after each exam.

Percentage	
Exams	45%
Final Exam	30%
Homework	10%
Quizzes	15%

The scale used to convert from total points earned to a letter grade will no more stiff than:

Percentage	Grade
90.0 - 100.0	A
80.0 - 89.9	B
70.0 - 79.9	C
60.0 - 69.9	D
Below 60.0	F

Academic Honesty

I place a high premium on honesty. Therefore, I consider cheating a serious offense, not only to me, and to other students, but ultimately to the cheater. If a student cheats on an exam, either by copying another student's work or by using a cheating device (notes on paper, clothing, desk, etc...) and I catch him or her, I will address it by either giving them an F for the exam, an F for the entire course, or asking the school to dismiss the student.

Week #	Date	Monday	Tuesday	Wednesday	Thursday	Friday
1	Jan. 6 - 10		1.5 - 1.6	2.1 - 2.2	2.2 - 2.3 Quiz #1	
2	Jan. 13 - 17		2.4 , 2.6	3.1 - 3.2 Quiz #2	3.3 Exam #1	
3	Jan. 20 - 24		3.4 - 3.5	4.1 - 4.3	4.3 - 4.4 Quiz #3	
4	Jan. 27 - 31		5.1 - 5.3	5.4 - 5.5 Quiz #4	6.1 Exam #2	
5	Feb. 3 - 7		6.2 - 6.4	7.1 - 7.3	7.4 Quiz #5	
6	Feb. 10 - 14		7.5 - 7.6	Review	Final Exam	