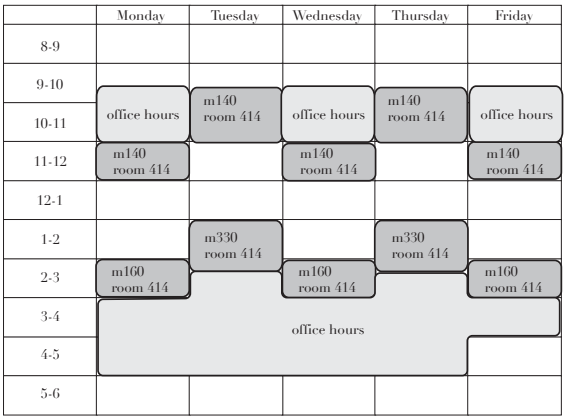
Mathematics 160: Calculus for Business and Life Sciences.

UT Martin Department of Math and Statistics. Fall 2005.

Essential information

Class meetings: Monday, Wednesday, Friday, 2:00-2:50 . Humanities 414.
Instructor: Matthew Harvey
Office: Clement Hall, room 377
Office phone number: 881-7359
Email: mharvey@utm.edu
Website: http://www.utm.edu/staff/mharvey/math160.html
Office hours:



Course description

The prerequisite for this class is Math 140 or its equivalent.

The textbook for this course is *Calculus: for Business, Economics, and the Social and Life Sciences*, 8^{th} ed by Laurence D. Hoffman and Gerald L. Bradley. A graphing calculator is required for this course. Preferred models are the TI-83 and TI-84, but other models may be acceptable. Calculators with Computer Algebra Systems (CAS), such as the TI-89, are prohibited.

You will understand the concepts of limits and continuity. You will learn how to compute the derivative of a function and its role in describing the graph of the function. You will discover how these concepts apply to some basic applications, in particular curve sketching and optimization. You will learn how to compute integrals and use integrals to find the area between curves. This material is covered in chapters 2 through 5 of Hoffman-Bradley.

Attendance

Your presence in class is expected. Attendance is not required, but absences will of course result in a lower quiz grade. In class, you are expected to pay attention and contribute. At the very least, you must not be a distraction to your fellow classmates. Cell phones and other noisy gadgets should be silenced during class.

Grades

You will be assigned homework problems each class. It is highly recommended that you do as many of these problems as necessary to understand the material, but these will not be collected. Instead, you will take a short quiz at the beginning of each class (excepting test days) as a measure of your understanding of the recent material.

During the semester there will be five one-hour tests. These are tentatively scheduled on: September 16, October 3, October 24, November 9, and December 7. These dates are subject to change. A typical test would consist of between 10 and 20 short answer questions. To help prepare you, practice tests will be available to you on the course web site. When computing final grades, your lowest test grade will be dropped. No make-up exams will be given unless you can present a valid documented excuse. In this case, you will either take a make-up exam or be given a grade based on other assignments, whichever I feel is more appropriate.

At the end of the semester you will have a two-hour comprehensive final exam. This will be a multiple choice exam prepared by the department for all of the Math 160 classes.

Final grades will be decided according to these percentages:

A	90%-100%
B	80%-89%
C	70%-79%
D	55%-69%
F	0-54%

Homework 15%
Best Four Tests 60%
Final Exam 25%

Cheating

Cheating will not be tolerated– any student caught cheating will receive an F for the course and/or be reported to the Office of Student Affairs.