

Syllabus for MATH 160 - Introduction to Applied Calculus

Professor Keough, Spring, 2009

Abbreviated Version

Course Description

MATH 160 is an introductory study of differential and integral calculus with an emphasis on techniques and applications. The course is designed for students in the biological, management, social and behavioral sciences.

The main topics to be studied during the semester are: a review of basic functions, including the exponential and logarithmic functions; the derivative and its use as a rate of change; the algebra of derivatives; applications of derivatives; and definite integrals and their applications.

Prerequisites

High school Algebra I and II and Plane Geometry. It is assumed that the skills you learned in these classes are current.

Textbook

Brief Applied Calculus, Fourth Edition, by Berresford and Rockett, Houghton Mifflin Publishing (ISBN-10: 0-618-60636-X; ISBN-13: 978-0-618-60636-8). The course covers the following content: Chapter 1 (all); Chapter 2 (all); Chapter 3 (all except Section 3.5); Chapter 4 (all); and Chapter 5 (all except Section 5.5).

Graphing Calculator

A graphing calculator comparable to the TI-83 or TI-84 is required for the course. You'll use it for exams and assignments, and you should have it with you in class every day.

When and Where We Meet

Our class meets every Monday, Wednesday, and Friday between January 26 and May 11, with the *only* exceptions being the week of Spring Break (March 16, 18, and 20). We meet in **Devilbiss Hall Room 112**, with Section 012 gathering from 10:00 to 10:50 AM, and section 013 from 11:00 to 11:50 AM.

Your attendance is expected at these classes. Regular attendance checks will be made, and anything less than a solid attendance record *will* negatively influence your semester grade determination (see below).

Class Website

We will use Blackboard/WebCT as our official means of communication. Log in to myclasses.salisbury.edu using your usual username and password. You'll find a calendar of class coverage and assignments, info on your grades, a link to this document, and whatever else we can provide.

Examinations and Assignments

Exams. The following are the dates for exams.

- Exam #1 (in-class): *Wednesday, February 18*
- Exam #2 (in-class): *Wednesday, March 11*
- Exam #3 (in-class): *Wednesday, April 8*
- Exam #4 (in-class): *Wednesday, April 29*
- Final Exam:
 - *for Section 012: Monday, May 18, beginning at 8:00 AM (1.5 hour, comprehensive exam)*
 - *for Section 013: Tuesday, May 19, beginning at 1:30 PM (1.5 hour, comprehensive exam)*

Students are expected to take exams on the assigned dates and with the section of the class in which they are registered. *There are no makeup exams.*

Assignments. Homework assignments will be made at every class. They will fall into two categories:

- *Suggested Exercises* are problems that you should work out, preferably in writing in a notebook that you'll keep for the semester. Complete solutions for these exercises will be made available on the class website usually right away so you can compare them against what you've done.
- *Required Exercises* are problems for which you are expected to write up your own solutions and pass in (usually) at the next class. Complete solutions for these exercises will be supplied only after the assignment is turned in.

All exercises will be posted on our class website at *myclasses.salisbury.edu* as we go through the semester. Please refer to the assignments page for all details.

All *Required Exercises* in this semester's assignments are to be handed in *at the start of class; late assignments will not be accepted.* For students with official University commitments which interfere with submission times, alternative delivery arrangements can be made, but *only with my prior agreement.* Selected portions of the *Required Exercises* will be graded and each assignment will count 5 points. At the end of the semester, we'll drop the two lowest assignment grades and average those remaining to generate your homework grade contribution.

Semester Grading

The four, in-class exams will count **16%** each. The cumulative, 1.5 hour final exam will count **24%**. Your assignment scores will count **12%**. Your final, letter grade will be determined primarily from this scale, with minor adjustments for whatever else I know about your situation, including the quality of your attendance record.

Office Hours/Getting Help

Professor G. E. Keough

Henson Science Building Room 130, 410.543.6467

Monday: 8:45 – 9:45; 3:00 – 4:30

Wednesday: 8:45 – 9:45; 3:00 – 4:30

Friday: 8:45 – 9:45

I expect to be available on some Tuesdays this semester, almost always on the day prior to an examination, and will announce these as we go through the semester. I am not on campus on Thursday. Other hours may be available by appointment.