Math 2050: Calculus II
University of Virginia’s College at Wise. Department of Mathematics and Computer Science. Spring 2010.

BASIC INFORMATION

Class meetings:
• Monday, Friday 8:00-8:50
• Tuesday, Thursday 8:00-9:15
• Darden Hall 214

Instructor: Dr. Matthew Harvey
Office: Darden Hall 235
Office phone: 276-376-4571

Office hours:
• Monday 9:00-11:00
• Tuesday 9:30-11:00, 2:00-3:00
• Wednesday 10:00-12:00, 3:00-4:00
• Thursday 9:30-11:00, 2:00-3:00
• Friday 9:00-11:00

Email: msh3e@uvawise.edu
Web: www.mcs.uvawise.edu/msh3e/

COURSE DESCRIPTION

The prerequisite for this course is satisfactory performance on the placement test or successful completion of Math 2040 with a grade of C or better.

This is the second course in the calculus sequence. The primary focus on this course will be the integral, and its applications. In more detail, course topics will include:
• the definite integral
• the fundamental theorem of calculus
• substitution
• area between curves
• volumes of revolution
• work
• methods of integration
• numerical approximation
• improper integrals
• arc length and surface area
• parametric equations
• polar coordinates

By the end of the course, you should have an understanding of the concept of the integral. You should know the standard techniques for computing these integrals, and understand how the integral is used in some basic applications. In addition, you should know how plane curves can be described parametrically or in polar coordinates. The textbook for this course is Calculus, Early Transcendentals, 6th ed., by James Stewart. We will cover the material in chapters 5-8 and chapter 10 of this book.

THE EVERYDAY CLASS

Your presence in class is expected. In class, you are expected to pay attention and contribute. At the very least, you not be a distraction to your fellow classmates. Please turn off electronic devices, including cell phones, MP3 players, and the like. Disruptive behavior will not be tolerated. If I feel that you are a distraction to the rest of the class, I will ask you to leave.

GRADES

Homework is an important component of this course and something you should take seriously. Homework will be assigned and collected regularly. Your work should be neat, organized, and well thought out.
• You are allowed to collaborate with classmates on the homework, but you must turn in your own work. Collaboration means working together to solve the problems—copying will not be accepted.
• Your work should be neat, well-organized, and stapled. Answers should be clear and well-reasoned.
• You may receive partial credit for good work even if you do not arrive at the correct answer. By itself, a correct final answer without proper explanation may not be worth full credit.

During the semester there will be four in-class tests. These are tentatively scheduled for: February 4, February 25, April 1, and April 27. A typical test will consist of between 10 and 20 short answer problems.
• 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.
• Your final exam grade may be used to replace you lowest test grade.
• At the end of the semester you will have a comprehensive final exam.

• Course grades will be assigned according to these percentages:
  • homework & quizzes: 25%
  • tests: 50%
  • final exam: 25%

If you need course adaptations or academic adjustments because of a documented disability, if you have emergency medical information to share with me, or if you need special arrangements in case the building must be evacuated, please make an appointment to talk with me as soon as possible.

CHEATING
Cheating will not be tolerated. Any student caught cheating will be reported to the Honor Court. A student who is convicted will receive an F for the course.