

# Math 3060: Calculus III

University of Virginia's College at Wise. Department of Mathematics and Computer Science. Fall 2013.

## BASIC INFORMATION

Class meetings:

- Mon, Fri 8:00-8:50
- Tues, Thurs 8:00-9:15
- Darden Hall 132

Instructor: Dr. Matthew Harvey

Office: Darden Hall 235

Office phone: 276-376-4571

Office hours:

- Monday 9:00-11:00
- Tuesday 9:30-11:30
- Wednesday 10:00-11:00, 12:00-1:00
- Thursday 9:30-11:30
- Friday 9:00-11:00

Email: [msh3e@uvawise.edu](mailto:msh3e@uvawise.edu)

Web: [www.mcs.uvawise.edu/msh3e/](http://www.mcs.uvawise.edu/msh3e/)

## COURSE DESCRIPTION

The prerequisite for this course is successful completion of Math 2050 with a grade of C or better or permission of the instructor.

This is the third course in the calculus sequence. We will study the following topics:

- sequences
- series
- convergence/divergence tests
- power series
- Taylor series
- vectors
- the dot and cross products
- lines and planes in 3-space
- surfaces
- space curves
- limits and continuity of surfaces

- partial derivatives
- directional derivatives
- the gradient
- optimization
- multiple integrals

The textbook for this course is *Calculus, Early Transcendentals, 7th ed.*, by James Stewart. We will cover the material in the following sections: chapters 11 and 12, chapter 13 sections 1-3, chapter 14, and chapter 15 sections 1-3. We will also briefly review polar and parametric coordinates (sections 1-4 of chapter 10).

## THE EVERYDAY CLASS

Your presence in class is expected. In class, you are expected to pay attention and contribute. At the very least, you must 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.

In addition to homework, we may have short in-class quizzes periodically throughout the semester.

During the semester there will be four in-class tests. These are tentatively scheduled for: September 10, October 1, November 5, and December 3. A typical test would consist of about a dozen short answer questions.

- 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 your lowest test grade.
- At the end of the semester you will have a comprehensive final exam.
- At the end of the course, you must take a calculus exit exam covering material from all

three calculus courses. Participation in this exam will count as a homework grade.

- Course grades will be assigned according to these percentages:
  - homework & quizzes: 20%
  - tests: 60%
  - final exam: 20%

If you need course adaptation or accommodation because of a disability or if you have emergency medical information to share with me, please make an appointment to talk with me as soon as possible. To make inquiries regarding disability services, please contact Whitney Wells, ADA Coordinator, at 276-328-0265 or [wew3x@uvawise.edu](mailto:wew3x@uvawise.edu), or visit Academic Support Services in Zehmer Hall.

## CHEATING

Cheating will not be tolerated. Any student caught cheating will receive a zero on the assignment, will be reported to the Honor Court, and if found guilty may receive an F for the course.