

Math 21 I: Multivariable Calculus

Calculus III

Dr. Emilie Wiesner

Fall 2007

About the Course

Many natural and social phenomena depend on multiple variables, and multivariable calculus provides tools for studying these phenomena. In this class, we will generalize and adapt the fundamental ideas of one-variable calculus to two-, three-, and higher-dimensional space.

Textbook: Vector Calculus (3rd edition), S. Colley

Contact Information

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Office Hours: Monday 3-4PM; Wednesday 10-11AM; Thursday 8:15-9:15AM; Friday 10-11AM in the help room.

You are also welcome to stop by when I am in or set up an appointment to meet with me.

Expectations and Assignments

Participation: To help you develop a deep understanding of the material, you will be given opportunities in class to think about important concepts and to discuss those concepts with you classmates. To succeed in the class, it is essential that you actively participate.

Homework and Projects: There will be daily homework assigned from the textbook. You should complete the homework and be prepared to discuss it by the next class period. The daily homework will be collected several times during the semester.

In addition to daily homework problems, you will also complete several projects. You will work on the projects in a small group outside of class and turn in a project report as a group.

Quizzes, Midterm Exams, Final Exam: There will be weekly quizzes, two midterm evening exams, and a cumulative final exam. The midterm exams are scheduled for

- Wednesday, Oct. 10 at 7PM
- Wednesday, Nov. 14 at 7PM

In Williams Hall 310. The time and location of the final exam are TBA.

Academic Honesty

I encourage you to discuss the daily homework and projects with your classmates and with me. However, you should write your work on your own and in your own words. In the case of projects, this means that your *group* should write the group report as a group in the group's own words. You should not allow anyone to copy your work.

Grades

Your final score for the course will be broken down as follows:

- 8%: *Participation and Daily Homework*
- 17%: *Projects*
- 15%: *Quizzes*
- 35%: *Midterm Exams*
- 25%: *Final Exam*

Attendance: Your regular attendance is essential. If you miss class, it is your responsibility to obtain any information presented on that day. You are allowed 4 absences (excused or unexcused) without penalty. For each additional absence after the first 4 absences, one point will be deducted from your participation and daily homework score for the class. I may remove you from the class after 8 absences.

Your final score will determine your grade for the class as follows:

Grade	Final Score	Grade	Final Score
A	94%	C	74%
A-	90%	C-	70%
B+	87%	D+	67%
B	84%	D	64%
B-	80%	D-	60%
C+	77%	F	<60%

This syllabus is a general plan for the course. However, deviations may be necessary and will be announced to the class.