Learning Outcomes: The main outcome of your work in our course should be a mastery of differentiation and integration of vector-valued functions of several variables and the acquisition of an understanding of the algebra and geometry of low dimensional vector spaces.

Note: The last day to drop classes without incurring a “W” is 1/18/11, and the last day to drop classes without incurring a “WF” is 2/28/11. If you do not qualify for this course via placement tests or previous coursework, you will be dropped automatically by Monday, January 17, unless you can immediately provide information to the Undergraduate Office (LC 413) proving you should not be dropped. The office can be reached by e-mail at mathpt@math.sc.edu and by telephone at 777-5313.

ADA: If you have special needs as addressed by the Americans with Disabilities Act and need any assistance please notify me immediately.

Attendance: I expect you to attend all classes, recitations, and computer labs. A grade penalty will be exacted if you have an excessive number of absences (whether excused or unexcused); see the Bulletin of Undergraduate Studies:
http://www.sc.edu/bulletin/ugrad/acadregs.html#class%20atten.
If you plan to leave before class is over, the correct procedure is to mention this to me before I start class. It is impolite and disruptive to leave class while I am lecturing unless you have followed this procedure.

Grade Breakdown: 20% from Homework, 20% from In-Class Exercises, 35% from Midterm Exams, 25% from Final Exam.

Grading scale: $A = [90, 100], B+ = [86, 90], B = [80, 86], C+ = [76, 80], C = [70, 76], D+ = [66, 70], D = [60, 66], F = [0, 60].$

Homework: Homework will be assigned at the end of each class and posted on the website. All assigned problems are mandatory, and you must show all of your work. Homework will be collected once a week, graded, and returned as soon as possible.

In-Class Exercises: At the beginning of each class, four students will be chosen randomly to do a problem from the homework assigned during the previous class at the board. These students will be given 5 minutes to complete the problem. The next 5 minutes will be spent going over their solutions. A grade will be assigned for the outcome of the exercises. Since there are 40 lecture periods, the first will not include this step, and two other periods will be occupied with exams, there are a total of 148 opportunities for students to do board work. There are 35 students enrolled, so each student will receive at least 4 such grades (and a few will receive 5, the number of which depends on how many students drop).

Exams: There will be two midterm exams and a cumulative final exam. There will be no make-up exams; if you miss an exam without an extraordinary reason (and documentation of it), you will receive a 0. The content of the exams will be similar to the homework. However, keep in mind that you are responsible for
all material covered in class or in the homework. No electronic devices, including calculators and mobile phones, are permitted in the exams. The final exam will be held on Thursday, December 14, at 5:30–8:30 PM.

Math Tutoring Center: The Math Tutoring Center runs walk-in help desks around campus. No appointment necessary. See

http://www.math.sc.edu/mathlab.html

Academic Honesty: Cheating and plagiarism will not be tolerated. Violations of this policy will be dealt with according to University guidelines. See:

http://www.sc.edu/academicintegrity/

Hints for a successful term:

1. Check the website early and often. Homeworks and announcements will be posted there, and there is a list of useful resources (including old MATH 241 exams and homeworks).

2. Ask questions in class, and come by office hours. Get to know your classmates and form a study group.

3. Do your homework, do it yourself (although collaborating with peers can be very useful), and make sure that you understand each problem when you’ve finished it. It is all too easy to rely on calculators and rote memorization, only to find later that you don’t really understand.

4. Do not assume you comprehend something just because you saw it done. Always ask yourself, “Could I solve that problem myself, start-to-finish, even if it were slightly different?” If not, do related practice problems from the homework or elsewhere.

5. Document your thinking. Showing that you know the final answer to a problem proves little more than that your peripheral vision is intact. Showing that you know how to get there correctly demonstrates that you understand, and that is ultimately what you will be graded on. Note that there are often multiple valid routes to an answer, but there are many more dead-ends that you must recognize and avoid.

6. The pace of the course is fast. Do not let yourself fall behind in any respect. If you suspect for a moment that you are not keeping up, immediately try to remedy the problem by studying, doing practice problems, and/or speaking with me.