Math 2142Q Section 1 Spring 2009
Reed Solomon

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Office Hours:

Grading: You will be graded on homework (40%), 2 midterm exams and a final exam (20% each).

Homework: There will be weekly homework assignments collected for this course. The homework problems will include both proofs and calculation problems. When you write a proof, you should write your explanations as though they were for another student in the class. When you solve a calculation problem, you should show all steps in your calculation. For both types of problems, you should work through your mathematical thoughts on scratch paper first and rewrite the results in a clean and concise way when you hand it in.

Textbook: The textbook for this course is *Advanced Calculus*, second edition, by Patrick M. Fitzpatrick. Because this course will move quickly, it is extremely important that you read the textbook as we go along. Many of the ideas in this course require time and effort to grapple with before they really sink in. Just listening passively to the lectures will not be enough to master this material. In addition, we will cover several topics which are not in the textbook. Therefore, it is important for you to attend all lectures.

Midterm Exams: The first midterm exam is on **Thursday February 26** and the second midterm exam is on **Tuesday March 31**. When we get close to the time of each exam, I will try to be very clear about what material is covered and what types of problems you can expect to see on the exam.

Calculators: You are welcome to use a graphing calculator for this course, including on the exams. However, you must show all steps in your calculations on the homework and the exams, so I think it is unlikely that a calculator will be of much help in this course.

Office Hours and Additional Help: This course moves quickly and it is extremely important that you don't get behind. I strongly recommend visiting me in office hours if you find yourself having difficulties with the material.

Academic Integrity: Instances of academic dishonesty are taken very seriously at UConn. Please read the statement on Academic Integrity on the course web page. If you ever have a question about whether certain behavior constitutes academic dishonesty, you should ask!

Date	Section
Tues 1/20	Section 6.1
Thurs 1/22	Section 6.2
Mon 1/26	Section 6.3
Tues 1/27	Section 6.4
Thurs 1/29	Sections 6.5 and 6.6
Mon 2/2	Section 7.3
Tues 2/3 Thurs 2/5 Mon 2/9	Integration techniques (including Section 7.2)
Tues 2/10	L'Hospital's Rule
Thurs 2/12	Improper integrals
Mon 2/16 Tues 2/17 Thurs 2/19	Applications of integrals
Mon 2/23 Tues 2/24	Differential equations (including Section 7.1)
Thurs 2/26	Midterm Exam 1
Mon 3/2 Tues 3/3	Differential equations
Thurs 3/5	Section 7.4
	Spring Break
Mon 3/16	Section 8.1
Tues 3/17	Section 8.2
Thurs 3/19	Section 8.3
Mon 3/23	Section 8.4
Tues 3/24	Section 8.5
Thurs 3/26	Section 8.7
Mon 3/30	Review Day
Tues 3/31	Midterm Exam 2
Thurs 4/2 Mon 4/6 Tues 4/7 Thurs 4/9	Convergence of series (including Section 9.1)
Mon 4/13 Tues 4/14	Section 9.2
Thurs 4/16	Section 9.3
Mon 4/20 Tues 4/21	Section 9.4
Thurs 4/23 Mon 4/27 Tues 4/28	Section 9.5
Thurs 4/30	Review Day