Math 2144Q Spring 2022
Reed Solomon

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Office Hours: TBA

Remote plan: UConn is starting the semester with two weeks of remote classes. I will post asynchronous lectures for Wednesday January 19 and Friday January 21 as recorded videos in HuskyCT. For the week of January 24th, our class will take place synchronously on WebEx at the scheduled lecture time. Hopefully, we will be back in person starting the week of January 31st.

Grading: You will be graded on homework (50%), two midterm exams (15% each) and a final exam (20%).

Homework: There will be regular (approximately weekly) homework assignments. When giving a proof or explaining your work, you should express your mathematical thoughts in clear and complete sentences. Write your mathematical justifications as though explaining the problem to someone else in this course. 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. You will be graded both on the correctness of your solution and on your mathematical writing.

Textbook and content: This semester, we will use the same textbooks as Math 2141-2143, specifically *Volume I* and *Volume II* of *Calculus*, second edition, by Thomas M. Apostol. We will cover Chapters 8 and 9 in *Volume I* and Chapters 4–7 in *Volume II*. Time permitting, we will cover additional topics from later chapters in *Volume II*.

The focus of Math 2144 is on differential equations, but the method of approaching this subject is a little different from the first three semesters of advanced calculus. Solving differential equations requires a wide variety of information and techniques from the first three semesters. During this semester, we will frequently review earlier material which we will then use in the context of differential equations. At several points during the semester, I will supplement the material in Apostol with additional readings photocopied from other sources to include computational methods that are not in Apostol.

Midterm Exams: The first midterm will cover Chapters 8 and 9 in *Volume I*. The second midterm will cover Chapters 4 and 5 in *Volume II*. I will set the dates of these exams during the semester once I see how quickly we move through the material. The exams will be mainly computational.

Calculators: You are welcome to use a calculator for this course, including on the exams. However, 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. It is much easier for us to discuss a section of

the textbook to keep you caught up that to try to discuss an entire chapter.

Academic Integrity: Instances of academic dishonesty are taken very seriously at UConn. Please read https://community.uconn.edu/academic-integrity-undergraduate-faq/. If you have a question about whether certain behavior constitutes academic dishonesty, you should ask!