Professor: Dan Freed, RLM 9.162.

Lectures: Tuesday, Thursday 9:30–10:45, RLM 5.114.

Professor’s Office Hours: Wednesday 2:00–4:00. I will also be in my office today 2:00–3:30. Also, I would like to meet each of you, so please come by in the first few weeks of class. Office hours are an excellent opportunity to ask questions, learn more, seek advice, etc. Take advantage in all of your classes!

TA: Lingfan Chen, RLM 13.156. He will also hold office hours to be determined.

Class Web site: http://www.ma.utexas.edu/users/dafr/M365C. Homeworks and partial solutions will be posted here, as will additional readings and links to web pages.

Text: Principles of Mathematical Analysis by Walter Rudin, 3rd edition. We will cover approximately the first seven chapters of the text during the semester, though some sections will be skipped. In lectures I will introduce ideas, notations, examples, etc. which are not in the text. Therefore, the lectures are an integral part of the class and you should take notes. Also, reading the text in advance of the lectures is very helpful.

Homework: The only way to learn mathematics is to do mathematics! So you will have plenty of problems to work on. I encourage you to form study groups, help each other, and to seek help elsewhere (friends, parents) if you like. The best places for help are office hours. An optimal strategy is to try each problem yourself first, then get together with others to discuss your solutions and questions, and finally write up the solutions yourself. Please work out problems neatly—don’t hand in your scratch work. One of the goals is to sharpen your mathematical writing skills, and homework is an ideal place to practice. Homework will be collected at the beginning of the Thursday lecture. No late homework is accepted. Homework and some solutions will be posted on the website.

Tests: There will be 2 midterm exams and a final exam. They are scheduled during class on the September 29 and November 10. The final exam is December 8 at 2:00 PM. You must take the final exam. There are no makeup exams for any reason (see below).

Grading Scheme: You will receive 5 grades: a homework grade, the 2 midterm exams, and the final which counts double. I will drop the lowest of the 4 test grades and average the remaining 4 grades to determine your overall course grade. (The lowest two weekly homework scores will be dropped to determine your overall homework grade.) The policy of dropping the lowest grade justifies the no makeup policy.

Mathematical Opportunities: There are two outstanding programs for you to look into. The Directed Reading Program (http://www.ma.utexas.edu/users/drp/) pairs undergraduate students with graduate student mentors to undertake independent projects in mathematics. You need to apply by September 4 if you are interested. The Undergraduate Mathematics Club (https://www.facebook.com/groups/36478106354/) meets every Wednesday for interesting talks on a variety of topics. You needn’t apply to attend. I encourage you to get involved with one or both activities.

Policy: The University of Texas provides appropriate academic accommodations for qualified students with disabilities. For more information, contact the Office of the Dean of Students at 471-6259, 471-6441 TTY. If you plan on using accommodations, you need to notify your Instructors early in the semester.
Remark: Above all I hope you have fun in this course. I’ll give you interesting, sometimes challenging, problems in addition to the routine problems you must do to develop your technique. When you get frustrated please seek help—from classmates, from me, or from whomever you have around to help. If you never get frustrated, then please come see me; I’ll arrange for something more challenging. (I’m serious.)