

1 Contact Information

Professor: Stephen Robinson

Office: 127 Manchester

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2 Office Hours

TBA

Or by appointment

3 Text

Methods of Real Analysis, Second Edition, by Richard R. Goldberg.

We will cover the following sections of the text: 1.1-1.7 (quickly), 2.1-2.10, 3.1-3.6, 4.1-4.3, 5.1-5.5, 9.1-9.2, 6.1-?. I expect you to read every assigned section carefully, and I will hold you responsible for the assigned reading even when it does not get specific coverage during class.

4 Homework

During most class meetings I will suggest some homework problems. I expect you to try these problems before the next class meeting, and I expect you to come and ask questions if you cannot solve all of the problems. Every Friday I will ask you to turn in one or two of your solutions. Your total homework score will be equivalent to one exam (100 points). I will not allow homework to be turned in after the class meeting when I call for it.

5 Project

The project is intended for all graduate students and for any undergraduates who are willing and able to take on a significant challenge. Choose one of the

three famous theorems in chapter 10 and become an expert on its statement, its proof, and its meaning. Be prepared to demonstrate your expertise at the chalkboard in my office before the end of the semester.

6 Exams

There will be three exams, worth 100 points each. Each exam will have an in-class portion, to test your knowledge of standard topics, and a take-home portion, to allow time for more thoughtful and creative problems.

7 Grades

There are a total of 400 points available on homework and exams. Although I allow myself the option of adjusting the grading curve, you can use the following as a rough guideline: For undergraduates, the lowest C will be 260 points, the lowest B will be 320 points, and the lowest A will be 360 points along with a successfully completed project. (Notice that any undergraduate who chooses not to complete a project can earn up to a B+ based solely upon exam scores and homework.) The same scale applies to graduate students with the added condition that all graduate students must complete a project.

The secret to earning a C is consistent hard work and good study habits. I have tried to set up my homework policy and exams so that this is a clearly attainable goal, and a grade to be proud of. To earn a B or an A you must reach beyond the standard statements and definitions. You must be able to explain the ideas behind the definitions, prove the theorems rigorously, and extend the ideas to new situations.