

640:412
MATHEMATICAL ANALYSIS II
SPRING 2009

Instructor: Professor E. Speer Office: Hill Center 520
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Office Hours: Monday and Wednesday 3:20-4:40, Hill Center 520
By chance or appointment in Hill 520

Course web page: <http://www.math.rutgers.edu/courses/412/412-s09/>

Text: Walter Rudin, *Principles of Mathematical Analysis* (third edition). McGraw-Hill, 1976 (325 pp.); (ISBN: 0-07-054235-X; ISBN13: 9780070542358)

Prerequisite: Mathematical Analysis I (640:411) or permission of instructor.

General: This is a continuation of Mathematical Analysis I. Our goal is to cover Chapters 7, 8, 9, and 10 of Rudin.

I have posted some notes on writing proofs

Homework: Homework problems will be assigned weekly (by an assignment sheet posted on the web page), and some of these will be collected and graded. Homework is due at the beginning of the class period for which it is assigned.

One important way to learn mathematics is to talk about it. You are strongly encouraged to discuss problems—and indeed, all the material in the course—with me or with other students. After you have finished discussing a problem, however, you must write your solution independently, not in concert with others. Your ideas and approach to the problem may come from discussion, but you should express those ideas in your own words.

If you have trouble with homework problems, or with any material in the course, I urge you to come in during my office hours, or at some other time, and discuss them.

Exams: There will be two in-class exams, on **Monday, March 2** and **Monday, April 13**. The final exam will be **Friday, May 8, 4:00-7:00 PM**; the room for the final will be announced later.

Grading: Grading will be based on a weighted average of homework and exams:

Homework	20%
Class exams 20% each	40%
Final exam	40%