

640:411
MATHEMATICAL ANALYSIS I
FALL 2009

Instructor: Professor Eugene Speer
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Web site: <http://www.math.rutgers.edu/courses/411/411-f09/>

Office hours: Monday 9:00–10:00 AM, Hill 520
Tuesday 3:20–4:40 PM, Hill 520
Thursday 9:00–10:00 AM, Hill 520
Or by appointment or chance in Hill 520

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

Prerequisite: Permission of department.

General: Rudin is an excellent text, and we will stay fairly close to the development there. The goal is to cover through Chapter 6, but we may not get quite that far.

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, October 12** and **Monday, November 16**. The final exam will be **Friday, December 18, 8:00–11:00 AM**; 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%