Syllabus

MA 452-01/MA 502-01 (Summer, 2007)
Introduction to Real Analysis
Monday, Wednesday 12:30pm – 2:30pm, 215 Madison Hall

Instructor

• Dongsheng Wu
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• 824-6676
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• Office Hours: MW 3:00pm—5:00pm, or by appointment (e-mail).

Course Description

This is an introductory course in real analysis. Topics include:

Sequences, limits, continuity, differentiation of functions of one real variable,
Riemann integration, uniform convergence, sequences and series of functions, power
series, and Taylor series.

Prerequisites and Restrictions

• MA 330, Foundations of Mathematics

Textbook

• Analysis with an introduction to proof (4th Edition), by Steven R. Lay.
  Pearson Prentice Hall. ISBN: 0-13-148101-0

Tentative Coverage

Chapter 3: Sections 11, 12, 13, 14

Chapter 4: Sections 16, 17, 18, 19

Chapter 5: Sections 20, 21, 22, 23

Chapter 6: Sections 25, 26

Chapter 7: Sections 29, 30, 31
Grade Determination

- Homework assignments: 40%
- Mid-Term Exams: 30%
- Final Exam: 30%

Test Dates

- Seven Homework Assignments: Due on every Monday
- Two Mid-Term Exams: Will be announced at least one week in advance
- Final Exam: 11:30am-2:00pm Wednesday, 08/01/2007

Grading Scale (%)

A. 90-100
B. 80-89
C. 70-79
D. 60-69

F. 0-59

Policies

- No make-up exams will be given except for documented cases of illness or emergency.
- No late homework will be accepted except for documented cases of illness or emergency.
- Consult the Student Handbook for information about the grievance procedure, accommodations for students with disabilities, or academic misconduct.