

Math 8602: REAL ANALYSIS. Syllabus: SPRING 2016

Class Times and Location:

10:10 am – 11:00 am MWF, VinH 2.

Instructor: Mikhail Safonov, VinH 231, tel: 625-8571, email: safonov@math.umn.edu
<http://www.math.umn.edu/~safonov>

Office Hours: MWF, 11:15 am – 12:05 pm, or by appointment.

Textbook: *G.B. Folland*, REAL ANALYSIS. Modern Techniques and Their Applications. 2nd Edition, John Wiley & Sons, Inc., 1999.

We have covered material up to (including) Sections 3.2 of this book, plus some supplementary material in Fall 2015.

During Spring 2016, we plan to cover Sections 3.3–3.5, a few facts in Chapter 4 related to metric spaces (not general topological spaces), and Sections 5.1–5.5, 6.1–6.2, 7.1–7.3, 8.1–8.5, with some exclusions. If time permits, we may consider some special applications.

Homeworks: There will be 5 homeworks due at the beginning of class on Wednesdays, February 3, 17; March 9, 30; April 20.

Late homework will receive less than full credit, and possibly zero credit.

The grading for homeworks will be based on a selection of a few problems (3–5 ones, depending on the difficulty), a selection unknown to the class in advance.

Midterm Exams:

on Wednesdays, February 24 (6th week) and April 6 (11th week), during class time.

Final Exam:

on Tuesday, May 10, 10:00 am–Noon, VinH 211.

Grading: *Homeworks* - 20% of the total grade for 4 (out of 5) best ones,
Midterm Exams - 20% for each one, *Final Exam* - 40%.

Missed exams: Make-up Final exams will be given to students who have a **valid** reason for missing an exam. Such students must notify their instructor prior to the exam, and the reason must be documented. There will be **no make-up Midterm exams**. A proportional part of the score for the Final exam will be used instead for students who have a valid documented reason for missing a Midterm exam.