

Math 5616H: Introduction to Analysis II. Syllabus: Spring 2012

Class Times and Location:

2:30 pm – 3:20 pm MWF, VinH 206.

Instructor: Mikhail Safonov, VinH 231, tel: 625-8571, email: safonov@math.umn.edu
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Office Hours: MWF 1:30 PM – 2:15 PM, or by appointment.

Textbook: *W. Rudin*, "Principles of Mathematical Analysis", 3rd edition.

We plan to cover Chapters 6–9 of this book during Spring semester.

Supplementary text: *R. Strichartz*, "The Way of Analysis", 2000 or 1995 edition.
Both books are on reserve in Math library, VinH, 3rd floor.

Homeworks: There will be 7 homeworks during Spring semester, which are due on Feb 1, 13, 29; March 21; April 4, 18; May 2.

Midterm Exams: on Wednesdays,

February 15 (5th week) and March 28 (10th week), during class time.

Final Exam:

Saturday, May 12, 1:30 pm – 3:30 pm, VinH 206.

Grading: *Homeworks* - 20% of the total grade for 5 best ones out of first 6. Homework 7 will not be graded, but solutions will be provided.

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.

Incompletes: The grade of **I** can be assigned only to students who have taken and passed one Midterm Exams and who have a **valid** excuse for being unable to take the Final Exam.

Homework 1 (due on Wednesday, February 1).

Ch. 5: #15 (do only a part of this problem on p. 115: $M_1^2 \leq 4M_0M_2$), # 17, 26.

Ch. 6: #2, 8, 14.