

Measure and Integration (Math 5111) Spring 2009

Meeting

Time: MWF 11:00-11:50

Location: MSB 319

Instructor

Iddo Ben Ari, benari@math.uconn.edu

Office: MSB 416.

Office hours: M 1:00-1:50 ,W 2:00-2:50 or by appointment.

Please feel free to contact me with any questions or problems anytime.

Textbook and Material

Real Analysis, Modern Techniques and Their Applications, G. Folland, 2nd ed.

I'm planning to cover:

Measures (Ch. 1), Lebesgue Integration (Ch. 2), Signed Measures and Differentiation (Ch. 3), L^p spaces (Ch. 6), Radon Measures (Ch. 7). If there's time left, Fourier Analysis (Ch. 8).

Note: I'll not cover the material exactly as the book does. However, you may want to have it for reference.

Recommended reading (covering roughly the same material): Real Analysis and Probability, R.M. Dudley; Real Analysis, H. Royden; Real and Complex Analysis, W. Rudin.

Grading

Homework: 50%.

Final Exam: 50%.

Homework: I'll post a weekly homework assignment, which you'll have two weeks to submit. The final exam will be based on questions from homework (but not necessarily identical).

Final exam: will take place on *Friday, May 8 2009, 1:00-3:00 PM*