MATH 776
Linear Analysis II- Measure Theory
Spring 2007

Instructor: David Singman

Office: Science and Tech I, Room 235

Office Hours: Tuesday and Thursday, 10:30-11:50am and by appointment.

Telephone: (703)-993-1476 You can leave a voice-mail message if I am unavailable.

E-mail: dsingman@gmu.edu

Web site: You can find the web site for the course by going to
http://math.gmu.edu, following the link to “Course Information”, then
“Course Home Pages” and then clicking on the link to our section.
Please check it regularly as it is here that I will post homework assign-
ments, solutions, announcements, etc.

Text: Measure and Integral: An Introduction to Real Analysis, by Whee-
den and Zygmund, Marcel Dekker, Inc.

Course: The main tools of measure theory from the point of view of real and
complex analysis will be presented. The topics include Lebesgue mea-
sure and the Lebesgue integral, Fatou’s lemma, monotone and domi-
nated convergence theorems, Fubini’s theorem, differentiation theory,
maximal functions, abstract integration.

Grading: Homework assignments (60%), final exam (30%), class partici-
pation (10%).

Final Exam: The final exam will be held on Tuesday May 8, 7:30-10:15pm.