

**MATH 776–001 (Measure and Integration)
Spring 2011**

Instructor: David Walnut

Office: Science and Technology I, room 261

Phone: 703 993 1478 (voice) 703 993 1491 (fax)

Email: dwalnut@gmu.edu

Course Web Page: Access through <http://math.gmu.edu/coursehomepages.htm>

Office hours: MW 1:00–2:30 and by appointment.

Text: H. L. Royden and P. M. Fitzpatrick, *Real Analysis* (Fourth Edition), Prentice Hall (2010). ISBN-13: 978-0-13-143747-0, ISBN-10: 0-13-143747-X.

Topics:

The course will introduce Lebesgue measure on the real line and the Lebesgue integral of functions of a single variable. L^p spaces on the real line for $1 \leq p \leq \infty$ will be introduced. We will also discuss abstract measure spaces and differentiation.

The course webpage contains important announcements, handouts, and other useful information for students in this course. You should check the web page regularly so that you will not miss important information.

Grading:

Homework assignments will be given throughout the semester. Your homework grade will count for 80% of your semester grade. Also a written in-class final exam will be given on Monday, May 16, 4:30pm–7:15pm in the same room where we have class. Your final exam score will count for 20% of your final grade.