

Math 103 — Topics in Analysis

Text: Gerald B. Folland: *Real Analysis: Modern Techniques and their Applications.*

Meets MWF 1:45 – 2:50
Room TBA

Math 103 will concentrate on measure theory and Lebesgue integration with the goal of preparing students for the analysis certification examination. The course will also be valuable for any interested undergraduate who has completed Math 63. The exact syllabus will depend on the backgrounds and interests of those enrolling. My plan is start with a very brief review of the Riemann integral and its properties. From there we'll cover as much of Chapters 1 through 7 in the text as time permits.

Ideally, prospective students should have had undergraduate courses in abstract analysis (at Dartmouth, that would be Math 63). Familiarity with the Lebesgue integral on the real line would be very helpful, but is not required for Math 103. For more details, see the course web page:
<http://math.dartmouth.edu/~m103f08>.

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