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Office Hours: TBA
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About the course: This is the second course of a three term sequence in basic abstract analysis. This term we will begin with a study of $L^p$ spaces (chapter 6). These will provide examples of metric spaces, which is the next topic. We will cover much of the material in chapter 7, together with some sections from chapter 10, and the Banach fixed point theorem with some applications. We will then return to measure theory, looking at integration in product spaces, and differentiation theory of set functions. This may spill over into next quarter.

Grading: Homework and Class Participation 45 %.
Midterm 20 %, February 13 (tentative).
Final 35 %, Thursday, March 18, 14:00-15:50

There will be regular homework assignments. You are encouraged to form study groups to think about the problems together. However, you MUST write up your solutions on your own.

Accommodation: Students with documented disabilities who may need accommodations, who may have emergency medical information the instructor should know, or who may need special arrangements in the event of evacuation, should make an appointment with the instructor as early as possible, no later than the end of the first week. In order to arrange alternative testing the student should make the request at least one week in advance of the test. Students seeking accommodations should be registered with the Office of Services for Students with Disabilities.