

**Math 520 Intro to Analysis -- Fall 2011**  
**Tentative Schedule**

The schedule below shows what I tentatively plan to cover in class each day. Section numbers refer to the [text by Ross](#). As circumstances dictate, this schedule may change over the course of the semester, but it should serve as a guide to what we will be doing.

8/29	<b>Sections 1&amp;2, Natural and Rational Numbers</b>	8/31	<b>Section 3, Real Numbers</b>
9/5	<b>Labor Day - no class</b>	9/7	<b>Section 4, Completeness</b>
9/12	<b>Section 5, Infinity</b>	9/14	<b>Section 7 Limits of Sequences</b>
9/19	<b>Section 9, Limit Theorems</b>	9/21	<b>Section 10, Monotone and Cauchy Sequences</b>
9/26	<b>REVIEW</b>	9/28	<b>Exam 1</b>
10/3	<b>Section 11, Subsequences</b>	10/5	<b>Section 12, lim sup and lim inf</b>
10/10	<b>Section 13, Topology in Metric Spaces</b>	10/12	<b>Section 14, Series</b>
10/17	<b>Section 15, Alternating Series and Integral Tests</b>	10/19	<b>Section 17, Continuous Functions</b>
10/24	<b>Section 18, Properties of Continuous Functions</b>	10/26	<b>Review</b>
10/31	<b>Exam 2</b>	11/2	<b>Section 19, Uniform Continuity</b>
11/7	<b>Section 20, Limits of Functions</b>	11/9	<b>Section 23, Power Series</b>
11/14	<b>Section 24, Uniform Convergence</b>	11/16	<b>Section 25, More on Uniform Convergence</b>
11/21	<b>Sections 21 and 22, More on Metric Topology</b>	11/23	<b>Thanksgiving - no class</b>
11/28	<b>Sections 28 and 29, Differentiation</b>	11/30	<b>Sections 32 and 33, Integration</b>
12/5	<b>Sections 33 and 34, Integration and the Fundamental Theorem of Calculus</b>	12/7	<b>review, catch up, last class</b>
12/12		12/14	
12/19	<b>Final Exam: Monday, Dec 19, 5:30 - 8 PM</b>	12/21	