

Math 305 Fall 2011
Syllabus (Tentative)

Thursday, September 8	Overview; Basic Set Operations (2.5)
Tuesday, September 13	Relations (2.6); Functions (2.7); Cardinality (2.8)
Thursday, September 15	Natural Numbers and Induction (3.10)
Tuesday, September 20	Ordered Fields (3.11)
Thursday, September 22	The Completeness Axiom (3.12)
Tuesday, September 27	Topology of the Reals (3.13)
Thursday, September 29	Compact Sets (3.14)
Tuesday, October 4	Convergence of Sequences (4.16)
Thursday, October 6	Limit Theorems (4.17)
Tuesday, October 11	Monotone Sequences and Cauchy Sequences (4.18)
Thursday, October 13	MIDTERM EXAM #1
Tuesday, October 18	Subsequences (4.19)
Thursday, October 20	Limits of Functions (5.20)
Tuesday, October 25	Continuous Functions (5.21)
Thursday, October 27	Properties of Continuous Functions (5.22)
Tuesday, November 1	Uniform Continuity (5.23)
Thursday, November 3	The Derivative (6.25)
Tuesday, November 8	The Mean Value Theorem (6.26)
Thursday, November 10	L'Hôpital's Rule (6.27)
Tuesday, November 15	MIDTERM EXAM #2
Thursday, November 17	Taylor's Theorem (6.28)
Tuesday, November 22	The Riemann Integral (7.29)
Thursday, November 24	Properties of the Riemann Integral (7.30)
Tuesday, November 29	Fundamental Theorem of Calculus (7.31)
Thursday, December 1	Final Exam Review
Thursday, December 15	FINAL EXAMINATION