

**SM331****ADVANCED CALCULUS I  
Fall, 2010-11**

Steven R. Lay, "Analysis With an Introduction to Proof," 4th ed., Pearson  
Prentice Hall

Introduction and Review	3 days	
Section 16: Sequences and Convergence		3 days
Section 17: Limit Theorems		4 days
Section 18: Monotone and Cauchy Sequences	4 days	
Section 19: Subsequences		5 days
Review and Exam One		2 days
Section 20: Limits of Functions		5 days
Section 21: Continuity		5 days
Sections 13 & 14: Topology of $\mathbf{R}^1$		4 days
Section 22: Consequences of Continuity		6 days
Review and Exam Two		3 days
Section 23: Uniform Continuity		3 days
Section 24: Derivatives		5 days
Section 25: The Mean Value Theorem		4 days
Final Review	4 days	

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