MATH 366, Honor Analysis II		**Spring 2001**
Jan 17	3.1–2 Limit, Sup, Inf, Open Sets	#1 Read Chapters 1–4, Skim 5,6
19	3.2 Closed Sets	
22	3.3 Compact Sets, Cauchy Sequences	
24	4.1–2 Continuous Functions	#2 Read 7.1–2
26	7.3 Uniform Convergence	#3 p.274:3,5,11,13a
29	7.3 Uniform Convergence	
31	7.4 Power Series	#4 p.294:1–8,10,11
Feb 2	7.4 Power Series	*Quiz 1*
5	7.5 Approximation by Polynomials	#5 p.307:1,2,3,6,13,15
7	7.5 Approximation by Polynomials	
9	7.5 Approximation by Polynomials	
9	7.6 Equicontinuity	#6 p.314:1,2,4–7
12	7.6 Equicontinuity	
14	9.1 Structures on Euclidean Space	*Quiz 2*
19	9.1 Structures on Euclidean Space	#7 p.366:1–5,9,11–12,15
21	9.2 Topology of Metric Spaces	#8 p.384:1,2,3,5,8,10,13,17
23	9.2 Topology of Metric Spaces	
26	9.2 Topology of Metric Spaces	
28	9.2 Topology of Metric Spaces	
Mar 2	9.2 Topology of Metric Spaces	*Quiz 3*
5	9.3 Functions on Metric Spaces	#9 p.409:1–3,8–10,15–17,21,26,31,32
7	9.3 Functions on Metric Spaces	
9	*Midterm Exam*	
10–18	*Midsemester Break*	
19	9.3 Functions on Metric Spaces	
21	9.3 Functions on Metric Spaces	
23	11.1 ODE: Existence and Uniqueness	#10 p.483:1,2; LN p.63:1–3
26	11.1 ODE: Existence and Uniqueness	
28	11.1 ODE: Existence and Uniqueness	
30	11.1 ODE: Existence and Uniqueness	*Quiz 4*
Apr 2	13.1 Implicit Function Theorem	#11 p.580: 4; p.600:2; LN p.79:1–3
4	13.1 Implicit Function Theorem	
6	13.1 Implicit Function Theorem	
9	13.1 Implicit Function Theorem	
11	13.2 Curves and Surfaces	
13	*Easter Holiday*	
16	*Easter Holiday*	
18	14.1 Lebesgue Measure	#12 p.641: 2,5–8,10,11,15; p.654:4,5
20	14.1 Lebesgue Measure	*Quiz 5*
23	14.1 Lebesgue Measure	
25	14.2.3 Hausdorff Measure/Dimension	
27	14.3 Lebesgue Integral	(#13 p.668: 9, LN p.99: Prove Thm 12.9)
30	14.3 Lebesgue Integral	
May 2	14.3 Lebesgue Integral	
3–4	*Study Days*	
May 11	*Final Exam, 8:00–10:00 A.M.*	