

Math 166: Honors Calculus II		Syllabus	Spring 1999
Jan. 13	5.1 1st Fund Thm	#1 p.208(5.5):2–10even,11–15,21,28	
14	5.2–5.4 Primitive fns; 2nd Fund. Thm		
15	5.6–5.7 Int by substitution	#2 p.216(5.8):1–23 odd, A.1–A.3	
18	5.9 Int by parts	#3 p.220(5.10):1,3,7,8,11–13('a' only)	
20	6.1–6.5 Logs	#4 p.236(6.9) 1a,2–15	
21	<i>Quiz 1</i>		
22	6.6–6.8 Log ints and derivs	#5 p.236(6.9):16–27, A.4–A.6	
25	6.12–6.14 Exponential fn	#6 p.248(6.17):1–12	
27	6.15–6.16 Exp ints and derivs	#7 p.249(6.17):13–31odd,39,40	
28	<i>Quiz 2</i>		
29	6.18 Hyperbolic fns	#8 p.251(6.19):1–8,14,21–23, A.7–A.9	
Feb. 1	6.20–6.21 Inverse fns	#9 p.256(6.22): 12–18even,26,29–39odd	
3	6.21 Inverse trig fns		
4	<i>Quiz 3</i>		
5	6.23 Partial fractions	#10 p.267(6.25):1–12, A.10–A.11	
8	6.24 P.F., Trig substitutions	#11 p.267(6.25):13–24	
10	Trig subst.	#12 p.267(6.25):26,29,33,34,36,38,39	
11	<i>Quiz 4</i>		
12	7.1–7.3 Taylor polynomials		
15	7.3 More Taylor Polynomials	#13 p.278(7.4) 1–10	
17	Review		
18	Exam 1		
19	7.5 Taylor's formula	A.12–A.14	
22	7.7 Lagrange form of the remainder	#14 p.284(7.8) 1–3,6–9	
24	7.6 Error estimates		
25	<i>Quiz 5</i>		
26	7.9 <i>o</i> -notation	#15 p. 290(7.11) 1–10, A.15–A.17	
Mar. 1	7.9 <i>o</i> -notation	#16 p.291(7.11) 11–17,20,22,25,26	
3	7.10 Indeterminate forms		
4	<i>Quiz 6</i>		
5	7.11 L'Hôpital's Rule	#17 p.295(7.13) 1–13, A.18–A.19	
8–12	Midsemester Break		
15	7.14 $\pm\infty$, L'Hôpital Extensions	#18 p.303(7.17) 1–10	
17	7.15–7.16 Infinite limits	#19 p.303(7.17) 11–20	
18	<i>Quiz 7</i>		
19	7.16 Infinite limits	A.20–A.21	
22	10.1–10.2 Sequences	#20 p.382(10.4) 1–10	
24	10.3 Monotonic sequences	#21 p.382(10.4) 11–18,33,35, A.22–A.24	
25	<i>Quiz 8</i>		
26	10.5–10.6 Infinite series	#22 p.391(10.9) 1–10	
29	10.7–10.8 Telescoping & geometric series	#23 p.391(10.9) 11–13,15–18,20,22,23	
31	10.11–10.12 Convergence tests		
Apr. 1	10.12–10.13 Integral test	#24 p.398(10.14) 1–10	
2	<i>Easter Holiday</i>		
5	<i>Easter Holiday</i>		
7	10.13, Review	#25 p.399(10.14) 11–19	
8	Exam II		
9	10.15 Root and Ratio test	#26 p.402(10.16) 1–14, A.25–A.27	
12	10.17 Alternating series		
14	10.18 Absolute & conditional convergence	#27 p.409(10.20) 1–3,5–18,22,24	
15	<i>Quiz 9</i>		
16	Abel's Theorem, 10.21 Rearrangement of series	A.28–A.31	
19	10.23 Improper Integrals	#28 p.420(10.24) 1–6,8,10	
21	11.6 Power series; radius	#29 p.430(11.7) 1–12	
22	<i>Quiz 10</i>		
23	11.8 Properties of power series	#30 p.438(11.13) 1–10, A.32–A.33	
26	11.9 Taylor's series		
28	Review		
30	<i>Study Day</i>		
May 6	Thursday, Final Exam 8:00 A.M.		