

Math 166: Honors Calculus II	Syllabus	Spring 2000
Jan. 19 5.1 1st Fund Thm	#1 p.208(5.5):2–10even,11–15,21,28	
20 5.2–5.4 Primitive fns; 2nd Fund. Thm		
21 5.6–5.7 Int by substitution	#2 p.216(5.8):1–23 odd, A.1–A.3	
24 5.9 Int by parts	#3 p.220(5.10):1,3,7,8,11a,12,13a	
26 6.1–6.5 Logs	#4 p.236(6.9) 1a,2–15	
27 <i>Quiz 1</i>		
28 6.6–6.8 Log ints and derivs	#5 p.236(6.9):16–27, A.4–A.6	
31 6.12–6.16 a^x , integrals, derivs	#6 p.248(6.17):1–12	
Feb. 2 6.18 Hypebolic fns	#7 p.249(6.17):13–31odd,39,40	
3 <i>Quiz 2</i>		
4 6.20–21 Inverse fns	#8 p.251(6.19):1–8,14,21–23, A.7–A.9	
7 6.21 Inverse trig fns	#9 p.256(6.22): 12–18even,26,29–39odd	
9 6.23 Partial fractions	#10 p.267(6.25):1–12, A.10–A.11	
10 <i>Quiz 3</i>		
11 6.24 P.F., Trig substitutions	#11 p.267(6.25):13–24	
14 Trig subst.	#12 p.267(6.25):26,29,33,34,36,38,39	
16 7.1 Taylor polynomials		
17 <i>Quiz 4</i>		
18 7.2 Taylor polynomials	#13 p.278(7.4) 1–10, A.12–A.14	
21 7.3 More Taylor Polynomials		
23 7.3 Proofs		
24 <i>Quiz 5</i>		
25 7.6 Taylor's Formula	#14 p.284(7.8) 1,2,3,6,7(use .4939[57,68]),8,9, A.15–A.17	
28 7.6 Error estimates		
Mar. 1 Review		
2 Exam 1		
3 7.9 o -notation	#15 p. 290(7.11) 1–10	
6 7.10 Indeterminate forms	#16 p.291(7.11) 11–17,20,22,25,26	
8 7.11 L'Hôpital's Rule	#17 p.295(7.13) 1–13	
9 <i>Quiz 6</i>		
10 7.14 $\pm\infty$, L'Hôpital Extensions	#18 p.303(7.17) 1–10, A.18–A.19	
11–19 Midsemester Break		
20 7.15–7.16 Infinite limits	#19 p.303(7.17) 11–20	
22 7.16 Infinite limits		
23 <i>Quiz 7</i>		
24 10.1–10.2 Sequences	#20 p.382(10.4) 1–10, A.20–A.21	
27 10.3 Monotonic sequences	#21 p.382(10.4) 11–18,33,35	
29 10.5–10.6 Infinite series	#22 p.391(10.9) 1–10	
30 <i>Quiz 8</i>		
31 10.7–10.8 Telescoping & geometric series	#23 p.391(10.9) 11–13,15–18,20,22,23, A.22–A.24	
Apr. 3 10.11–10.12 Convergence tests	#24 p.398(10.14) 1,3–7,9–12	
5 10.12–10.13 Integral test	#25 p.399(10.14) 2,8,13–19	
6 <i>Quiz 9</i>		
7 10.15 Root and Ratio test	#26 p.402(10.16) 1–14, A.25–A.27	
10 10.17 Alternating series		
12 10.18 Absolute & conditional convergence	#27 p.409(10.20) 1–3,5–18,22,24	
13 <i>Quiz 10</i>		
14 Abel's Theorem, 10.21 Rearrangement of series	A.28–A.31	
17 10.23 Improper Integrals	#28 p.420(10.24) 1–6,8,10	
19 Review		
20 Exam II		
21 <i>Easter Holiday</i>		
24 <i>Easter Holiday</i>		
26 11.6 Power series; radius	#29 p.430(11.7) 1–12	
27 11.8 Properties of power series	#30 p.438(11.13) 1–10	
28 11.9 Taylor's series	A.32–A.33	
May 1 11.10–11 Convergence and standard series	#31 p.438(11.13) 11–20	
3 Review		
4–5 <i>Study Days</i>		
May 12 Friday, Final Exam 8:00 A.M.		