

**Math 166: Honors Calculus II**
**Syllabus**
**Spring 1996**

Jan. 17	5.1 1st Fund Thm	#1 p.208(5.5):2–10even,11–15,21,28
18	5.2–5.4 Primitive fns; 2nd Fund. Thm	
19	5.6–5.7 Int by substitution	#2 p.216(5.8):1–23 odd
22	5.9 Int by parts	#3 p.220(5.10):1,3,7,8,11–13('a' only)
24	6.1–6.5 Logs	#4 p.236(6.9) 1a,2–15
25	Quiz 1	
26	6.6–6.8 Log ints and derivs	#5 p.236(6.9):16–27
29	6.12–6.14 Exponential fn	#6 p.248(6.17):1–12
31	6.15–6.16 Exp ints and derivs	#7 p.249(6.17):13–31odd,39,40
Feb. 1	Quiz 2	
2	6.18 Hyperbolic fns	#8 p.251(6.19):1–8,14,21–23
5	6.20–6.21 Inverse fns	#9 p.256(6.22): 12–18even,26,29–39odd
7	6.21 Inverse trig fns	
8	Quiz 3	
9	6.23 Partial fractions	#10 p.267(6.25):1–12
12	6.24 P.F., Trig substitutions	#11 p.267(6.25):13–24
13	Trig subst.	#12 p.267(6.25):26,29,33,34,36,38,39
15	Quiz 4	
16	7.1–7.3 Taylor polynomials	
19	7.3 More Taylor Polynomials	#13 p.278(7.4) 1–10
21	7.5 Taylor's formula	
22	Quiz 5	
23	7.6 Error estimates	#14 p.284(7.8) 1–3,6–9
26	7.7 Lagrange form of the remainder	
28	Review	
29	<b>Exam 1</b>	
Mar. 1	7.9 Go over exam, $o$ -notation	#15 p. 290(7.11) 1–10
4	7.9 $o$ -notation	#16 p.291(7.11) 11–17,20,22,25,26
6	7.10 Indeterminate forms	
7	Quiz 6	
9	7.11 L'Hôpital's Rule	#17 p.295(7.13) 1–13
11–15	<b>Midsemester Break</b>	
18	7.14 $\pm\infty$ , L'Hôpital Extensions	#18 p.303(7.17) 1–10
20	7.15–7.16 Infinite limits	#19 p.303(7.17) 11–20
21	Quiz 7	
22	7.16 Infinite limits	
25	10.1–10.2 Sequences	#20 p.382(10.4) 1–10
27	10.3 Monotonic sequences	
28	Quiz 8	
29	10.5–10.6 Infinite series	#21 p.382(10.4) 11–18,33,35
Apr. 1	10.7 Telescoping series	#22 p.391(10.9) 1–10
3	10.8 Geometric series	#23 p.391(10.9) 11–13,15–18,20,22,23
4	Quiz 9	
5	Easter Holiday	
8	Easter Holiday	
10	10.11 Convergence tests	#24 p.398(10.14) 1–10
11	10.12 Convergence tests	
12	10.13 Integral test	#25 p.399(10.14) 11–19
15	10.15 Root & ratio tests	#26 p.402(10.16) 1–14
17	Review	
18	<b>Exam II</b>	
19	10.17 Alternating series	#27 p.409(10.20) 1–3,5–18,22,24
22	10.18 Absolute & conditional convergence	
24	10.21 Rearrangement of series	
25	Quiz 10	
26	11.6 Power series; radius	#28 p.430(11.7) 1–12
29	11.8 Properties of power series	#29 p.438(11.13) 1–10 (not collected)
May 1	11.9 Taylor's series	
2	Study Day	
Wed. 8	<b>Final Exam</b> 1:45 P.M.	