

Syllabus for Calculus I				Spring semester, 2004			
Text: Stewart, <i>Calculus: Concepts and Contexts</i> , 2nd edition							
Dates		Text Coverage			Homework		
lesson	day	ch	sect	topics	pg	problems	quiz
1/8-1/9							
1	R	App	A	Inequalities & intervals	A6	15, 18, 22, 25, 31, 34, 35, 37, 39	
2	F	App	B	Analytic geometry*	A16	1, 3, 7, 12, 17, 21, 27, 38, 39	
*omit: conic sections							
1/12-1/16							
3	M	App	C	Trigonometry**	A27	2, 3, 5, 8, 13, 15, 17, 27	
4	T	1	1	Functions	22	2, 5-8, 10, 11, 13, 15, 18	
5	W	1	1	Functions	22	14, 16, 21, 22, 35, 36, 48, 49	1
6	R	1	2	Models	36	3, 4, 7, 11, 13, 14, 17	
7	F	1	3	Transforming functions	46	1-5, 10, 11, 13, 16, 17, 20, 27	
**omit: inverses; eqn's 9-17							
1/20-1/23							
8	T	1	3	Transforming functions	47	28, 32, 35, 37, 38, 49, 52	
9	W	1	5	Exponential functions	63	1, 4, 11, 13, 15-17, 20,	2
10	R	1	6	Inverse functions; logs	73	4, 5, 6, 13, 17, 20, 23, 24	
11	F	1	6	Inverse functions; logs	74	28, 35, 37, 49, 50, 54, 59	
1/26-1/30							
12	M	App	C	Inverse trig functions	A28	41-45, 48	
13	T	1	7	Parametric equations	81	1, 3-6	
14	W	1	7	Parametric equations	81	8, 9, 11, 13, 16, 20, 25	3
15	R	1	7	Parametric equations	81	27, 29, 30	
16	F			Review	85	1, 3, 9, 18, 24, 26, 31, 32	
2/2-2/6							
17	M			Exam 1			
18	T	2	1	Tangents & velocities	99	1-6, 8	
19	W	2	2	Limits	108	1, 3, 5, 6, 9, 10, 16	
20	R	2	3	Calculating limits	117	1, 2, 9, 13, 15	
21	F	2	3	Calculating limits	117	23, 29, 30, 33	
2/9-2/13							
22	M	2	4	Continuity	128	4, 8, 9, 13, 14, 29, 31, 35-37	
23	T	2	5	Limits involving infinity	139	2, 4, 7, 16, 21, 35, 36	4
24	W	2	6	Tangents; rate of change	148	1, 3, 5, 7, 13, 14, 19, 20, 22	
25	R	2	7	Derivatives	155	1-5, 11, 27, 28, 30	
26	F	2	1~7	Lab			
2/17-2/20							
27	T	2	8	Derivatives as functions	167	1-4, 8-10	5
28	W	2	8	Derivatives as functions	167	19, 31, 35-38	
29	R	2	9	Linear approximations	174	7, 8, 9, 11, 13	
30	F	2	10	What f' says about f	178	1-5, 8, 10-12	
2/23-2/27							
31	M	2	10	What f' says about f	178	25-28	
32	T			Review	182	1, 2, 21, 23, 25, 27, 31, 33, 38, 40	
33	W			Exam 2			
34	R	3	1	Elementary derivatives	197	1, 2, 9, 14, 18, 31, 32, 33, 34	
35	F	3	1	Elementary derivatives	197	37, 38, 41, 45-47, 48, 50, 55	

lesson	day	ch	sect	topics	pg	problems	quiz
	3/1-3/5						
36	M	3	2	Products & quotients	204	1-4, 7, 9, 11, 19, 20, 22, 26	
37	T	3	2	Products & quotients	205	27-32, 37, 38	
38	W	3	3	Applications	215	1, 2, 4, 5, 7, 8	
39	R	3	3	Applications	216	10, 12, 14, 20, 22, 27	6
40	F	3	1~3	Lab			
	3/8-3/12						
41	M	3	4	Trigonometric derivatives	223	1, 4, 6-10, 17, 18, 23, 30, 31	
42	T	3	5	Chain rule	233	3, 6, 16, 33, 37-43	
43	W	3	5	Chain rule	234	47, 48, 51, 52, 65, 66, 73	7
44	R	3	6	Implicit differentiation	243	2, 3, 5, 6, 12, 16, 24	
45	F						
SPRING BREAK							
	3/22-3/26						
46	M	3	6	Implicit differentiation	244	26-31, 33, 35, 36	
47	T	3	7	Derivatives of logs	250	2, 5, 17-20, 23, 25, 37, 38	
48	W	3	8	Differentials	256	2, 5, 6, 10, 14	
49	R	3	8	Differentials	256	16-22	8
50	F			Review	259	31-34, 39-44, 49, 52	
	3/29-4/2						
51	M			Exam 3			
52	T	4	1	Related rates	269	5-10	
53	W	4	1	Related rates	269	12-19	
54	R	4	1	Related rates	270	21-23, 25, 29, 30	
55	F	4	1	Lab			
	4/5-4/9						
56	M	4	2	Maxima & minima	277	7, 11-14, 24, 26, 28	
57	T	4	2	Maxima & minima	277	31, 32, 33, 35, 39, 41, 48, 56	
58	W	4	3	Derivatives & graphs	289	1, 2, 5-10, 12	
59	R	4	3	Derivatives & graphs	289	17, 24, 38, 41, 45	9
60	F	4	2, 3	Lab			
	4/12-4/16						
61	M	4	4	Graphing w/ a calculator	297	2, 4, 6, 20, 23, 27, 30	
62	T	4	5	L'Hospital's rule	305	1, 2, 3, 4, 9, 15, 27, 33, 45	
63	W	4	6	Optimization	312	1-7	
64	R	4	6	Optimization	313	8-10, 12, 14-16	10
65	F	4	4~6	Lab			
	4/19-4/23						
66	M	4	6	Optimization	313	17, 20, 22, 23, 26-28	
67	T	4	8	Newton's method	327	1-6, 9	
68	W	4	9	Antiderivatives	334	1-3, 5, 7, 10-12	11
69	R	4	9	Antiderivatives	334	25, 27, 30, 33, 35, 36, 37, 44	
70	F			Review	337	23, 25-28, 33-35	
	4/26-4/29						
71	M			Exam 4			
72	T			Exam discussion		Final, fall, 2003	
73	W			Course Review		TBD	
74	R			Course Review		TBD	