Math 141   Calculus I Syllabus   Fall 2013

Week	Date	Section	Topic	Homework Problems
1	8/23	D	Sin and Cos	worksheet #1
	26	D	Tan, Cot, Sec, Csc	worksheet #2
	27	D	Inverse Trig Functions	worksheet #3
	28		**Quiz #1: Trigonometry**	
2	30	2.2	Limits	1, 5, 7, 13-25
	9/2	LABOR DAY		
	3	2.2	Vertical Asymptotes	3, 9, 29-37
	4	2.3	Limit Rules	1-31, 37, 39, 51, 53
	6	2.5	Continuity	1-19, 23, 35-39, 51, 53
3	9	2.6	Horizontal Asymptotes	1-9, 13-37, 41-45, 49
	10		**Quiz #2: Limits**	
	11	2.7	Rates of Change	1-7, 11-15
	13	2.7	Derivatives at Points	17-23, 27-41, 43ab, 45-51
4	16	2.8	Derivatives as Functions	21-31, 35, 43-49
	17	2.8	Graphing Derivatives	1-17, 37, 39
	18	VALUES DAY		
	20		Review	
5	23		**Test #1: What a Derivative Is**	
	24	3.1	Powers and Exponentials	3-33, 43, 47, 51-55, 61-65
	25	3.2	Products and Quotients	1-31, 41-51, 59
	27	3.3	Trig Derivatives	1-23, 29-33, 49, 51
6	31	3.4	Chain Rule	1-53, 61-79
	10/1		**Quiz #3: Simple Derivative Rules**	
	2	3.5	Implicit Differentiation	5-21, 25-31, 65, 67
	4	3.5	Inverse Trig Derivatives	49-59, 63
7	7	3.6	Log Derivatives	3-33, 37-55
	8		Review	
	9		**Test #2: How to Calculate a Derivative**	
	11	FALL BREAK		

Week	Date	Section	Topic	Homework Problems
8	14	3.9	Related Rates I	1-13
	15	3.9	Related Rates II	15-23, 27
	16	3.9	Related Rates III	31-35, 39-45
	18		**Quiz #4: Related Rates**	
9	21	4.1	Extrema	1-13, 29-43, 47-63
	22	4.3	First Derivative Test	1ab, 3ab, 5, 9-17ab, 45-51abc, 53
	23	4.3	Second Derivative Test	7, 9-17c, 19-41
	25	4.7	Optimization I	3-19
	28	4.7	Optimization II	21-37
10	29	4.7	Optimization III	39-43, 51, 53, 59, 61, 73
	30		**Quiz #5: Optimization**	
	11/1	4.4	L'Hospital's Rule	1, 5-25, 29-39
	4	4.4	Indeterminate Forms	3, 41-65
11	5	3.7	Science Applications	1-9, 17, 19, 31, 33
	6	4.8	Newton's Method	1-7, 11-15, 37
	8		Review	
	11		**Test #3: Applications of the Derivative**	
12	12	5.1	Areas and Distances	1-7, 13-17
	13	E/5.2	$\sum$ and $\int$ Notation	[E] 1-35 [5.2] 5-11, 17, 19, 33-43, 47-63
	15	5.2	Riemann Sums	worksheet #4
	18		**Quiz #6: Definite Integrals**	
13	19	4.9	Antiderivatives	1-17, 21-53, 59-63
	20	5.3	Fundamental Theorem I	3-17, 55-61
	22	5.3	Fundamental Theorem II	19-41, 45
14	25	5.4	Indefinite Integrals	1=11, 15-43, 51-65
	26	5.5	Substitution I	1-35
	27		THANKSGIVING BREAK	
	29		THANKSGIVING BREAK	
15	12/2	5.5	Substitution II	39-47, 53-73, 77, 79, 85-89
	3		Review	
	4		**Test #4: How to Undo a Derivative**	
	6		Review for Final	
	10		Final Exam (5:00–7:00 pm)	