Math 0120 Schedule and Practice Problems

Based on a Monday/Wednesday/Friday schedule

January 10	1.1	Real numbers, inequalities, and lines	#6-25, 33-48, 61-65
January 12	1.2	Exponents	#1-35, 57-65, 71-80
January 14	1.3	Functions	#1-15, 23-30, 35-40, 65, 68, 79, 92, 93
January 19	1.4	Functions, continued	#1-5, 11-20, 33-40, 49-54, 63-67
January 21	2.1	Limits and continuity	#5-8, 13-16, 23-28, 33-50, 61-76
January 24	2.2	Rates of change, slopes, and derivatives	#1-10, 17-20, 25-30, 55, 56, 66-68
January 26	2.3	Some differentiation formulas	#1-40, 47, 49, 51, 52
January 28	2.4	The Product and Quotient Rules	#5-15, 31-46, 53-62
January 31	2.5	Higher-order derivatives	#1-54
February 2	2.6	The Chain Rule and the Generalized Power Rule	#11-50, 57
February 4	2.7	Nondifferentiable functions	#1-8
February 7		Review	
February 9		Exam 1	
February 11	3.1	Graphing using the first derivative	#1-25, 33-45
February 14	3.2	Graphing using the first and second derivatives	#1-15, 29, 30, 41-45, 49, 50, 57, 58
February 16	3.3	Optimization	#1-10, 19, 20, 25-30, 36-46
February 18	3.4	Further applications of optimization	#1-13, 21
February 21	3.5	Optimizing lot size and harvest size	#1-15
February 23	3.6	Implicit differentiation and related rates	#1-20, 37-40, 59-63, 66, 69
February 25	4.1	Exponential functions	#1-11, 13, 16, 17, 19, 22, 30
February 28	4.2	Logarithmic functions	#1-14, 17-23, 31, 32
March 2	4.3	Differentiation of exponential and logarithmic functions	#1-44, 51-54, 59-62, 119-122
March 4	4.4	Relative rates and elasticity of demand	#1-32
March 14		Review	
March 16		Exam 2	
March 18	5.1	Antiderivatives and indefinite integrals	#1-35, 43-48
March 21	5.2	Integration using logarithmic and exponential functions	#1-25, 41-45
March 23	5.3	Definite integrals and area	#19-25, 47-66, 75-82, 86, 90, 107
March 25	5.4	Average value and area between curves	#1-10, 27-30, 37-50

March 28	5.5	Consumers/producer surplus and income distribution	#1-20
March 30	5.6	Integration by substitution	#13-60
April 1	6.1	Integration by parts	#9-46
April 4	6.2	Integration using tables	#7-15, 57-60
April 6	7.1	Functions of several variables	#9-12, 31, 35-37
April 8	7.2	Partial derivatives	#1-32, 41-44
April 11		Review	
April 13		Exam 3	
April 15	7.3	Optimizing functions of several variables	#1-25
April 18	7.3	Optimizing functions of several variables (cont)	
April 20	7.5	Lagrange multipliers and constrained optimization	#1-31
April 22	7.5	Lagrange multipliers and constrained optimization (cont)	
TBA		Departmental final exam for all day sections	