

MATH 141
Schedule of Lectures

Lesson	Topic
1	Introduction to course (R.4, 1.3 Rates of Change, Difference Quotient)
2	1.1, 1.2 Limits and Continuity
3	1.4 Difference Quotient
4	1.5 Power Rule, Sum and Difference Rule
5	1.7 Chain Rule
6	1.6 Product Rule, Quotient Rule
7	2.6 Marginals
8	2.1 First Derivative Test for Local Extrema
9	1.8, 2.2 Higher Order Derivatives, Second Derivative Test
10	2.4 Absolute Extrema
11	2.5 Optimization
12	2.7 Implicit Differentiation and Related Rates
13	3.1, 3.2 Exponential and Logarithmic Functions
14	3.3, 3.4 The Growth Model
15	4.2 Anti-differentiation
16	4.1, 4.3 Limits of Sums, Area and Definite Integrals
17	4.4 Area Between Curves
18	4.5 Integration Technique: Substitution
19	5.1 Consumer's Surplus and Producer's Surplus
20	5.2 Integration of the Growth Model
21	5.4 Probability
22	5.5 Expected Value
23	6.1-6.2 Functions of Several Variables, Partial Derivatives
24	6.3 Max-Min Problems