

MATH 157
Schedule of Lectures

Lial, Greenwell & Ritchey *Calculus with Applications*

CLASS	SECTIONS grouped by topic	LECTURES
1	1.1-2	Linear Functions & their Properties
2	2.1-3	Polynomials, Rational Functions & their Properties
3	2.4-6	Exponential and Logarithmic Functions & their Properties, NO Compound Interest
4		
5	13.1	Trigonometric Functions & their Properties
6	3.1-2	Limits, Continuity
7		
8		
9	3.3	Rates of Change
10	3.4	Definition of Derivative
11	3.5	Graphical Differentiation
12	REVIEW	
13	MIDTERM 1	
14	4.1-2,13.2	Differentiation Rules: sum, difference, power, product, quotient; Application of Differentiation Rules
15		
16	4.3,13.2	Composite Functions, Chain Rule
17	4.4-5	Differentiating Exponential and Logarithmic Functions
18	5.1	Increasing and Decreasing Functions
19	5.2	Relative Extrema
20	5.3	Concavity, Second Derivative Test
21	5.4	Curve Sketching
22		
23	6.1	Absolute Extrema
24	6.2	Applications of Extrema
25	REVIEW	
26	MIDTERM 2	
27	6.3	Elasticity of Demand, ...
28	6.4	Implicit Differentiation
29	6.5	Related Rates
30	6.6	Differentials: Linear Approximation
31	12.6	Newton's Method
32	Finance 5.1	Simple and Compound Interest
33	Finance 5.2	Future Value of an Annuity
34	Finance 5.3	Present Value of an Annuity, Amortization
35	Finance Review: Mixed problems	
36		
37	REVIEW	