

Calculus I MATH 150 Syllabus
Lecture-by-Lecture
Department of Mathematics and Statistics
Hunter College
TEXT: Essential Calculus, second Edition
Stewart
Cengage

Sections 1.1 and 1.2 are a review of functions and are prerequisite for the course. While there are no lectures on chapter 1.2,1.2 , there are problems in webassign for student review.

LECTURE	SECTION	TOPIC
1	1.3	The Definition of Limits
	OMIT PRECISE DEFINITION OF A LIMIT, PAGE 31	
2	1.4	Calculating Limits
3	1.5	Continuity
4	1.6	Limits involving Infinity
5	2.1	Derivatives and Rates of Change
6	2.2	The Derivative as a Function
7	2.3	Basic Differentiation Formulas
7	2.4	The Product and Quotient Rules
8	2.5	The Chain Rule
9	2.6	Implicate Differentiation
10	2.7	Related Rates
11		
12	2.8	Linear Approximations and Differentials
13	3.1	Maximum and Minimum Values
14	3.2	The Mean Value Theorem
14	3.3	Derivatives and the Shapes of Graphs
15	3.4	Curve Sketching
16	3.5	Optimization Problems
17	3.7	Anti-derivatives
18		
19	4.1	Areas and Distances
20	4.2	The Definite Integrals

21	4.3	Evaluating Definite Integrals
22	4.4	The Fundamental Theorem of Calculus
23	4.5	The Substitution Rule
24	7.1	Areas Between Curves
25	7.2	Volumes
26	7.3	Volumes by Cylindrical Shells

Skip references to Simpson's rule.