

Hunter College Calculus I **MATH 150** Syllabus

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TEXT: Essential Calculus, second Edition Stewart, Cengage

LECTURE SECTION TOPIC

1.3 ~ 1.6 (~~OMIT EPSILON-DELTA~~)

2.1 ~ 2.8

3.1 ~ 3.5, 3.7

4.1 ~ 4.2

Calculating Limits Continuity

Limits involving Infinity

Derivatives and Rates of Change

The Derivative as a Function

Basic Differentiation Formulas

The Product and Quotient Rules

The Chain Rule

Implicit Differentiation

Related Rates

EXAM I

Linear Approximations and Differentials

Maximum and Minimum Values

The Mean Value Theorem

Derivatives and the Shapes of Graphs, Curve Sketching

Optimization Problems

Anti-derivatives

EXAM II

Areas and Distances The Definite Integrals

4.3 ~ 4.5

7.1 ~ 7.3

Evaluating Definite Integrals

The Fundamental Theorem of Calculus

The Substitution Rule

Areas Between Curves

Volumes

Volumes by Cylindrical Shells

Skip references to Simpson's rule.

EXAM III

Final

HW: ohm.lumenlearning.com register as Student with

The course ID: 41341

The enrollment key: Math150-02-2020Sp-Chen

Grading: 10% Homework + 10% Attendance .& Participation + 20% of each exam (3) + 40% of Final with one of the lowest exam grades being dropped.