

**Jefferson County Educational Service Center
Virtual Learning Academy
Required Course Materials
MATHCALC: CP CALCULUS**

Unit 01: Review

Graphing Calculator

Unit 02: Finding Limits Graphically, Numerically, and Analytically

Graphing Calculator

Unit 03: One-Sided Limits and Continuity

Graphing Calculator

Graph Paper

Unit 04: Limits Involving Infinity

Graphing Calculator

Unit 05: Limits Involving Infinity

Graphing Calculator

Graph Paper

Unit 06: The Definition of a Derivative

Graphing Calculator

Unit 07: Differentiation Rules - Part One

Graphing Calculator

Unit 08: Differentiation Rules - Part Two

Graphing Calculator

Unit 09: Differentiation of Trigonometry Functions and Evaluating Derivatives on the Calculator

Graphing Calculator

Unit 10: Applications of Derivatives

Graphing Calculator

Unit 11: Chain Rule

Graphing Calculator

Unit 12: Implicit Differentiation

Graphing Calculator

Unit 13: Derivatives of Inverse Functions

Graphing Calculator

Unit 14: Derivatives of Exponential and Logarithmic Functions

Graphing Calculator

Unit 15: Extreme Values of Functions

Graphing Calculator

Unit 16: Increasing and Decreasing Functions

Graphing Calculator

Graph Paper

Unit 17: Functions, Derivatives, and Second Derivatives

Graphing Calculator

Graph Paper

Unit 18: First Semester Final

Graphing Calculator

Unit 19: Introduction to Integrals

Graphing Calculator

Unit 21: Definite Integrals Part #1

Graphing Calculator

Unit 22: Definite Integrals Part #2

Graphing Calculator

Unit 25: Numerical Integration and the Natural Log Function

Graphing Calculator

Unit 26: Growth and Decay

Graphing Calculator

Unit 27: Integration Using the Calculator

Graphing Calculator

TRAPRIEM installed on the Graphing Calculator (Instructions for downloading the program are provided in the content section of the unit.)

Unit 29: Areas in a Plane

Graphing Calculator

Unit 30: Disc and Washer Method (Horizontal Rotation)

Graphing Calculator

Unit 31: Disc and Washer Method (Vertical Rotation)

Graphing Calculator

Unit 32: Disc and Washer Method Continued

Graphing Calculator

Unit 33: Sequence

Graphing Calculator

Unit 34: L'Hôpital's Rule

Graphing Calculator

Unit 35: Slope Fields

Graphing Calculator

Unit 36: Second Semester Final

Graphing Calculator