Jefferson County Educational Service Center
Virtual Learning Academy
Required Course Materials
MATHCALCAP: AP CALCULUS AB

Unit 01: Introduction
TI-Nspire CX or TI-Nspire CX CAS graphing calculator or any model of TI-Nspire graphing calculator

Unit 02: Prerequisites for Calculus – Part 1
TI-Nspire CX or TI-Nspire CX CAS graphing calculator or any model of TI-Nspire graphing calculator

Unit 03: Prerequisites for Calculus – Part 2
TI-Nspire CX or TI-Nspire CX CAS graphing calculator or any model of TI-Nspire graphing calculator

Unit 04: Prerequisites for Calculus – Part 3
TI-Nspire CX or TI-Nspire CX CAS graphing calculator or any model of TI-Nspire graphing calculator

Unit 05: Limits and Continuity – Part 1
TI-Nspire CX or TI-Nspire CX CAS graphing calculator or any model of TI-Nspire graphing calculator

Unit 06: Limits and Continuity – Part 2
TI-Nspire CX or TI-Nspire CX CAS graphing calculator or any model of TI-Nspire graphing calculator

Unit 07: Derivatives – Part 1
TI-Nspire CX or TI-Nspire CX CAS graphing calculator or any model of TI-Nspire graphing calculator
CALCULUS_CONTANDDIFF_ILARIA installed on the Graphing Calculator (Instructions for downloading the program are provided in the content section of the unit.)

Unit 08: Derivatives – Part 2
TI-Nspire CX or TI-Nspire CX CAS graphing calculator or any model of TI-Nspire graphing calculator

Unit 09: Mid-Semester Review

TI-Nspire CX or TI-Nspire CX CAS graphing calculator or any model of TI-Nspire graphing calculator

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

Unit 10: Derivatives – Part 3

TI-Nspire CX or TI-Nspire CX CAS graphing calculator or any model of TI-Nspire graphing calculator

Unit 11: Derivatives – Part 4

TI-Nspire CX or TI-Nspire CX CAS graphing calculator or any model of TI-Nspire graphing calculator

Unit 12: Derivatives – Part 5

TI-Nspire CX or TI-Nspire CX CAS graphing calculator or any model of TI-Nspire graphing calculator

Unit 13: Applications of Derivatives – Part 1

TI-Nspire CX or TI-Nspire CX CAS graphing calculator or any model of TI-Nspire graphing calculator

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

Unit 14: Applications of Derivatives – Part 2

TI-Nspire CX or TI-Nspire CX CAS graphing calculator or any model of TI-Nspire graphing calculator

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

Unit 15: Applications of Derivatives – Part 3

TI-Nspire CX or TI-Nspire CX CAS graphing calculator or any model of TI-Nspire graphing calculator

CALCACT06_OPTIMIZATION_EN installed on the Graphing Calculator (Instructions for downloading the program are provided in the content section of the unit.)

Unit 16: Applications of Derivatives – Part 4

TI-Nspire CX or TI-Nspire CX CAS graphing calculator or any model of TI-Nspire graphing calculator

Unit 17: Applications of Derivatives – Part 5

TI-Nspire CX or TI-Nspire CX CAS graphing calculator or any model of TI-Nspire graphing calculator

Unit 18: First Semester Exam

TI-Nspire CX or TI-Nspire CX CAS graphing calculator or any model of TI-Nspire graphing calculator
SHUTTLEASCENT installed on the Graphing Calculator (Instructions for downloading the program are provided in the content section of the unit.)

Unit 19: The Definite Integral - Part 1

TI-Nspire CX or TI-Nspire CX CAS graphing calculator or any model of TI-Nspire graphing calculator

Unit 20: The Definite Integral - Part 2

TI-Nspire CX or TI-Nspire CX CAS graphing calculator or any model of TI-Nspire graphing calculator
Calculus_RiemannSums installed on the Graphing Calculator (Instructions for downloading the program are provided in the content section of the unit.)

Unit 21: The Definite Integral - Part 3

TI-Nspire CX or TI-Nspire CX CAS graphing calculator or any model of TI-Nspire graphing calculator
FTC_2 installed on the Graphing Calculator (Instructions for downloading the program are provided in the content section of the unit.)

Unit 22: The Definite Integral - Part 4

TI-Nspire CX or TI-Nspire CX CAS graphing calculator or any model of TI-Nspire graphing calculator
AverageRollerCoaster installed on the Graphing Calculator (Instructions for downloading the program are provided in the content section of the unit.)

Unit 23: Differential Equations - Part 1

TI-Nspire CX or TI-Nspire CX CAS graphing calculator or any model of TI-Nspire graphing calculator
Slope_Fields installed on the Graphing Calculator (Instructions for downloading the program are provided in the content section of the unit.)

Unit 24: Differential Equations - Part 2

TI-Nspire CX or TI-Nspire CX CAS graphing calculator or any model of TI-Nspire graphing calculator

Unit 25: Differential Equations - Part 3

TI-Nspire CX or TI-Nspire CX CAS graphing calculator or any model of TI-Nspire graphing calculator
InfestationToExtermination installed on the Graphing Calculator (Instructions for downloading the program are provided in the content section of the unit.)

Unit 26:   Mid-Semester Review

TI-Nspire CX or TI-Nspire CX CAS graphing calculator or any model of TI-Nspire graphing calculator

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

Unit 27: Applications of Definite Integrals – Part 1

TI-Nspire CX or TI-Nspire CX CAS graphing calculator or any model of TI-Nspire graphing calculator

Unit 28: Applications of Definite Integrals – Part 2

TI-Nspire CX or TI-Nspire CX CAS graphing calculator or any model of TI-Nspire graphing calculator

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

Unit 29: Applications of Definite Integrals – Part 3

TI-Nspire CX or TI-Nspire CX CAS graphing calculator or any model of TI-Nspire graphing calculator

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

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

Unit 30: Applications of Definite Integrals – Part 4

TI-Nspire CX or TI-Nspire CX CAS graphing calculator or any model of TI-Nspire graphing calculator

Unit 31: Final Test Review

TI-Nspire CX or TI-Nspire CX CAS graphing calculator or any model of TI-Nspire graphing calculator

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

Unit 32: Preparation for AP Test

TI-Nspire CX or TI-Nspire CX CAS graphing calculator or any model of TI-Nspire graphing calculator

Unit 33: Preparation for AP Test

TI-Nspire CX or TI-Nspire CX CAS graphing calculator or any model of TI-Nspire graphing calculator

Unit 34: Preparation for AP Test
TI-Nspire CX or TI-Nspire CX CAS graphing calculator or any model of TI-Nspire graphing calculator

Unit 35:   Preparation for AP Test
TI-Nspire CX or TI-Nspire CX CAS graphing calculator or any model of TI-Nspire graphing calculator

Unit 36: Second Semester Final
TI-Nspire CX or TI-Nspire CX CAS graphing calculator or any model of TI-Nspire graphing calculator