



Course Description:

Introduction to Calculus focuses on the foundations and analysis of early material students will encounter in a college-level calculus class. Through the context of calculus, students will strengthen their skills in solving equations, graphing functions, and analyzing features of functions and their graphs. This course provides a review of polynomials, exponential, logarithmic, and trigonometric functions. Each family of functions will include an exploration of related limits and derivatives. Students will have the opportunity to begin exploring integrals at the conclusion of the course.

Unit list:

- Unit 1: Prerequisites
- Unit 2: Polynomial and Rational Functions
- Unit 3: Limits & Introduction to Derivatives
- Unit 4: Derivatives of Polynomial & Rational Functions
- Unit 5: Exponential & Logarithmic Functions
- Unit 6: Trigonometric Functions
- Unit 7: Introduction to Integration
- Unit 8: Conic, Parametric, and Polar

Textbook:

Mathematics Vision Project (MVP) *Introduction to Calculus* Modules, San Dieguito Union High School District Custom Edition, 2021.

Prerequisite:

Integrated Math 3

High Bluff Academy is accredited by the Western Association of Schools and Colleges (WASC). The above course is approved by the University of California system (A-G) and the National Collegiate Athletic Association (NCAA).