



Course: AP Calculus AB

Course Format: Blended & Paced – Online with Weekly Virtual Conferencing.

Credits: 4 (for completion of AP Calculus AB exam)

The course provides opportunities for students to develop the skills related to the mathematical practices as stated in the AP Course & Exam Description:

- Mathematical Practice 1: Implementing Mathematical Processes
- Mathematical Practice 2: Connecting Representations
- Mathematical Practice 3: Justification
- Mathematical Practice 4: Communication and Notation

This course is equivalent to a first-year college calculus course. Topics include Functions, limits and continuity, derivatives, and integrals. The course will focus on applying the skills and concepts of calculus to modeling and solving problems across multiple representations.

Course Requirements

- Students are required to complete all video lessons, make their own notes, complete Interactive Practice problems, and communicate effectively with the teacher.
- Students are required to compile a list of their personal Top Ten Errors at the end of each unit.
- Students are required to complete the course by the end of February if they intend to write the AP exam in May.
- Students are required to participate in a weekly virtual (ZOOM or TEAMS) seminar beginning the first week of March. Seminar times are from 3:30 to 5:30 PM, the days are TBA.
- Students are required to write all formative and summative assessments for this course.
- Students are required to have the use of a TI-Nspire graphing calculator.

Course Expectations:

- It is expected that students attend the weekly topical discussion sessions with the instructor over Zoom or Teams.
- It is expected that students purchase their own AP Calculus Barron's workbook.
- It is expected that students practice on past AP exam questions.
- It is expected that students plan and schedule their time accordingly to meet the rigor, demand and expectations of this course.
- In order to adequately prepare yourself for the AP Calculus exam that happens in May, IT IS STRONGLY RECOMMENDED that you complete your course by the end of February of your examination year, as March and April will be devoted to examination preparation activities.

Recommended Prerequisite: Mathematics 12 Pre-calculus with minimum of 86%

Resources: Online course materials, Textbook & Workbook