



AP Calculus AB
 Course Syllabus 2021-2022
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Course Description

Calculus is the study of how small changes have big consequences. It explains how a slow spreading virus can overtake a population. It determines how much rocket fuel is saved from having a space shuttle sling-shot around a moon or planet. It effectively models the world around us. The purpose for of this course is to prepare students to be successful on the AP Calculus AB test, as well as to prepare them for subsequent courses that many of them will see in college as they study in math-based fields. A pre-requisite to this course is Precalculus.

Goals for Student Learning

AP Calculus AB is an introduction into the limits, derivatives, and integrals of functions using graphical, tabular, and algebraic methods.

Textbook and Materials

Textbook: *Calculus: Graphical, Numerical, Algebraic; 3rd Edition. Finney, Demana, Waits, and Kennedy*

Required Supplies

- Planner
- Pencils
- Paper (Notebook preferred)

Graphing Calculator (TI-84 Plus or **Desmos**)

Classroom Rules and Procedures

- There is a warmup at the beginning of every class. Please be ready to start on time and remain seated until you are dismissed at the end of class.
- Use the restroom and use your locker during the passing time between classes.

We are all decent human beings, please act accordingly.

Course Outline

Quarter	1	2	3	4
Concepts and Products	Prerequisites for Calculus Limits and Continuity Derivatives	Derivatives Continued Applications of Derivatives	The Definite Integral Differential Equations and Mathematical Modeling	Applications of Integrals Preparation for Advanced Placement Exam

HCPS Grading Policy

PRODUCT (50%)	PROCESS (30%)	PRACTICE (20%)
<ul style="list-style-type: none"> • Primarily completed in presence of teacher • Rubric aligned to standards • Accuracy graded 	<ul style="list-style-type: none"> • Primarily completed in presence of teacher • Rubric aligned to standards • Accuracy graded 	<ul style="list-style-type: none"> • Graded for completion and participation

Extra credit will not be given for non-academic purposes

Absent Work Policy

All assignments should be submitted on time. Students will be given the number of class periods equal to the number of lawful class periods absent to turn in completed make up assignments without penalty.

Late Work Policy

All assignments should be submitted on time in order to earn full credit. Any assignment, (*product, process, or practice*) will be allowed to be turned in late for one letter grade deduction from the grade a student earns on the assignment. In order to earn credit for late assignments, students must submit assignments by the end of the day on Wednesday (except for the last week of the quarter) following the designated HAC update. Students are only able to submit assignments that have an established due date within the grading window before the designated HAC update. Assignment that are turned in for late credit will be identified by a footnote in HAC to include a statement about the deduction of a letter grade due to the lateness of the assignment.

Grading Window	Designated HAC Update	Late Work Due Date
September 8- September 24	September 24	September 29
September 27- October 13	October 13	October 20
October 14- October 29	October 29	November 5 (Friday)
November 8- November 19	November 19	November 24
November 22- December 10	December 10	December 15
December 13- January 13	January 13	January 21 (Friday)
January 24- February 11	February 11	February 16
February 14- February 25	February 25	March 2
February 28- March 11	March 11	March 16
March 14- March 25	March 25	March 31 (Thursday)
April 1- April 22	April 22	April 27
April 25- May 6	May 6	May 11
May 11- May 20	May 20	May 25

Academic Integrity

Academic integrity is taking responsibility for the quality and completion of one's own work. Academic dishonesty is taking someone else's work and claiming it as one's own. Students at Bel Air High School are responsible for knowing what is considered to be Academic Dishonesty and the subsequent consequences. More information can be found in the BAHS Student Planner.

Cell Phone Policy

- Students will place their cellphones in a teacher designated area as they enter each classroom. Teachers will review with students the specific location for each room. The phones will remain in the teacher designated area unless teachers explicitly tell students to take out the phones for instructional use.
- Cellphones will remain in the teacher designated area during bathroom visits, assemblies and trips to the nurse/counseling office/main office.
- Cellphones will be retrieved from the teacher designated area at the end of class at the direction of the teacher.
- School-appropriate cellphone use is permitted during class changes and lunch. Students are not permitted to make phone calls during school hours.
- If the cell phone policy is violated, it is a referable offense.

Please have your parent or guardian fill out the form below.
(Link or QR code) <https://forms.gle/izzG6KEUzjWYUJoq9>

