



AP Calculus BC

Course Syllabus 2021-2022

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Course Description

For this course are to prepare students to be successful on the AP Calculus BC 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. Students should also be able to explain problems and their solutions, both in written and oral form. They should be able to work effectively with others in order to solve difficult problems. A pre-requisite to this course is the successful completion of Calculus AB.

Goals for Student Learning

Students will build their mathematical proficiency by...

- Making sense of problems and persevering in solving them.
- Reasoning abstractly and quantitatively.
- Constructing viable arguments and critiquing the reasoning of others.
- Modelling with mathematics.
- Using appropriate tools strategically.
- Attending to precision.
- Looking for and making use of structure.
- Looking for and expressing regularity in repeated reasoning.

Textbook

Calculus-Early Transcendental Functions, 3rd ed. by Robert T. Smith and Roland B. Minton.

Required Supplies

- Pencils
- TI-84 Plus CE Calculator. You may bring your calculator to and from class.
- 1 ½ inch, 3-ring binder
- Paper (lined and graph)
- School issued laptop to be taken to class daily. **MUST BE CHARGED OVERNIGHT!**

Course Outline

- Derivatives (Ch. 2)
- Integration Techniques (Ch. 6)
- L'Hopitals (Ch. 3)
- Area & Volumes (Ch. 5)
- Parametrics, Polar, and Vector-Valued Functions (Ch. 9)
- Infinite Series & Taylor Polynomials (Ch. 8)
- Differential Equations (Ch. 7)

HCPS Grading Policy

Examples of Product, Process, and Practice		
PRODUCT (50%) <i>Culminating Demonstration of Knowledge</i>	PROCESS (30%) <i>Addressing Specific Short-Term Learning Outcomes</i>	PRACTICE (20%) <i>Building Attitudes, Habits, and Skills</i>
Does it measure how well students achieved specific learning goals, standards, and/or competencies?	Does it provide feedback to students regarding growth towards the attainment of specific learning goals, standards and competencies?	Does it allow students to practice skills and/or reinforce content learning?
<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.

Classroom Rules and Procedures

- **You are responsible for your work.** You must turn in assignments before you leave school for an activity and be prepared for the next class.
- **You are responsible during an absence to get copies of the classwork and homework assignments.**
- **You are responsible for your success.** Please make an appointment with me for extra help if you are having difficulty with a particular topic.
- Use the restroom and go to your locker during passing time.
- We are all decent human beings, please act accordingly.

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.