

Welcome to AP Calculus BC

In AP Calculus BC, students study Functions, Graphs, and Limits; Derivatives and their Applications; Integrals and their Applications; and Polynomial Approximations and Series. Calculus pulls together many of the concepts the students have studied in previous courses, and it also helps them to see the relevance of the material they were taught prior to Calculus. I believe that AP Calculus BC gives the students a strong foundation for the math and science courses they will take in college.

AP Calculus AB is roughly equivalent to a first semester college calculus course devoted to topics in differential and integral calculus. AP Calculus BC is roughly equivalent to two semesters of college calculus. This course teaches students to approach calculus concepts problems when they are represented graphically, numerically, analytically and verbally, and to make connections among these representations.

Learning in a “flipped” classroom:

In order to best take advantage of in-person class time, AP Calculus will become a “flipped” class. What that means is that all students will watch my lesson videos, and attempt practice problems outside of class. That allows time to focus on misconceptions, to get help as needed, and for independent practice during our class meeting times. It will take about two weeks to properly flip the class.

Teaching Strategies

1. Students are encouraged to work collaboratively to develop and understand new topics.
2. Presentation will require taking notes from a lesson video, an activity, a board, a projector, a textbook, or a handout.
3. Pertinent examples will be worked and or investigated during the presentation.
4. Questions should be noted while note taking and asked at our next class meeting.
5. Selective relevant assignments will follow and will be given throughout each unit
6. Teacher-developed items and supplemental texts are used to prepare the student.
7. Students are encouraged to form study groups to help each other.

Justification of Answers:

I ask my students to justify their answers on homework, quizzes, and tests, and I prefer that they write the justifications in sentences. We talk a lot about the amount of work they need to show and about the correct way to justify their work on various types of problems. To receive full credit, the work must support the answer provided on the assessment. All tests and quizzes will be timed.

Year At a Glance

<u>First Semester</u>	<u>Second Semester</u>
Unit 0: Review of PreCalculus	Unit 7: Differential Equations
Unit 1: Limits and Continuity	Unit 8: Applications of Integration
Unit 2: Differentiation and Basic Derivatives	Unit 9: Parametric Equations, Polar Coordinates, and Vector Valued Functions
Unit 3: Composite, Implicit and Inverse Differentiation	Unit 10: Infinite Sequences and Series
Unit 4: Applications of Derivatives	A comprehensive review of the year will take place before the AP exam.
Unit 5: Analytical Applications of Derivatives	
Unit 6: Integration and Accumulation of Change	

Classroom Practice, Math Department Practice and School Policy

1. Be PROMPT and PREPARED.
2. Be respectful to your peers, your teacher, and your classroom.
3. BE POSITIVE! Everyone can learn. It is all about growing and improving.
4. **Thinking must be shown** on tests, quizzes, and practice problems to support all answers to receive credit.
5. **No use of cell phones**, mp3 players or any other communication devices allowed unless granted by the teacher.
6. District dress code will be enforced.
7. **Absolutely NO food or drink** (other than water) is allowed in the classroom.
8. Cheating will result in loss of credit for the assignment, parent notification, and an office referral to the appropriate principal.
9. School ID's must be worn.

Grading Policy

70% - Summative Assessments – at least 3 per 9-week term Major Tests and Projects Given periodically to check for understanding <i>All tests are cumulative.</i>	30% - Formative Assessments – minimum 9 per term Daily Work/Practice and Quizzes Given and taken up daily
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Assignments are due on the day the class next meets unless otherwise stated. Assignments are graded each day on a 4 points completion scale. Every 2-3 assignments will count as one daily grade. All skill checks/quizzes and other formative assessments will count as a daily grade. Please note that there will be no redo's on all formative assessments.

Absences, Make-up Work and Re-test Policy

STUDENTS ARE RESPONSIBLE for getting any assignments/notes from Canvas daily. School policy for make-up will be enforced: one class period for each day missed to turn in minor assignments and five days upon return to class to makeup tests within the parameters of the teacher's tutoring schedule. According to school policy, it is the **student's responsibility** to request assignments **prior to field trip absences**. Makeup work should be completed/pre-scheduled **in advance of the trip**.

LATE WORK POLICY:

One class late: maximum grade of 85%

Two classes late: maximum grade of 70%

Late work will be accepted only prior to the end of the retest window for the related unit of study.

If a student fails a test, there will be an opportunity to show mastery by making corrections to their test. All students, including those that passed the exam, will be expected to make corrections to their test. Any points earned that exceed the max replacement grade of a 70 or above the original passing grade will be considered bonus points.

Tutoring Policy

I would recommend coming to see me as soon as you realize you need help. However, if you choose, you may see any of the math teachers for tutoring. Sometimes a different explanation of a topic can be helpful with comprehension. All of the tutoring times will be posted outside each teacher's door. As a general rule, I am available for tutoring on Tuesday, Wednesday, and Thursday before school from 8-8:35am and Tuesday 3:55-4:30 in room 2411.

Suggested Supplies Necessary for Success

1. 1” notebook – you will want to keep all 8 units of notes organized well
2. #2 pencils & erasers
3. Colored Pen (other than black or blue) & highlighter
4. notebook paper
5. TI graphing calculator (if possible)
6. Head phones if needing to watch lesson video during class time

Academic Honesty:

I have high expectations for academic honesty, effort, behavior, and attitude.

*Students are encouraged to collaborate on homework assignments, BUT they may not simply copy another’s assignment. Students may not misrepresent someone else’s work as their own.

*Students may not look on another student’s paper/Canvas account/AP Classroom during a test or quiz.

*Students may not have unauthorized material during a test or quiz.

*All phones must be put away and turned off.

College Board - MyAP Classroom – Online Registration

We will utilize MyAP Classroom provided through College Board as a resource for practice, review and assessments. Every student must enroll in our class. <https://myap.collegeboard.org/>

Join Code: EWPQ7G

AP Testing – Online Registration

All students must register for the AP exam at <https://user.totalregistration.net/AP/445952> by September 2 and you will have until (tentatively) October 29 to pay your balance in full.

Delta Math

We will also utilize Delta Math occasionally for practice and review. Every student will need to set up an account.

1st: Log into DeltaMath.com, go to “For Students” tab and then to “Register” tab.

2nd: Enter the course code based on your class period: 6th: Y25J-Y6AA

3rd: Complete registration.

AP Drop Procedures – Student/Parent Requests

If students are having difficulty in an AP course, they should setup a time to conference with their parent and teacher about their progress in the course. Students should access all support available to them in the class including tutorials and online resources. The windows for dropping an AP course are first week of school, following the posting of the P1 report card (end of first 6 weeks) and the first week of the spring semester (following our S1 report card). No AP drop considerations will be given outside of those windows. Requests to drop an AP course will only be allowed if there is space available in the substitute course.

PARENTS

Thank you for taking the time to read through the class expectations. I look forward to partnering with you and your student as we begin the school year. If you have any questions or concerns, please do not hesitate to contact me. Email is the best way to reach me.

Email: shadie.acosta@rockwallisd.org

Conference Period: 4th/7th period 1:15-2:25

Phone: 972-771-7339

Tutorial Times: Tues., Wed., and Thurs 8–8:35am, Tues. 3:55-4:30

Additional tutorial times available by appointment.