

Calculus BC

Course Description

AP Calculus includes two courses, AP Calculus AB and AP Calculus BC, which were developed in collaboration with college faculty. The curriculum for AP Calculus AB is equivalent to that of a first-semester college calculus course, while AP Calculus BC is equivalent to a first-semester college calculus course and the subsequent single-variable calculus course. Calculus BC is an extension of Calculus AB rather than an enhancement; common topics require a similar depth of understanding. Both courses are intended to be challenging and demanding, and each is designed to be taught over a full academic year.

Along with review of AB material we will learn:

- Euler's method
- Trig substitution and inverse trig derivatives
- Derivatives of parametric, polar, and vectors
- Antiderivatives by substitution, parts, partial fractions, and improper integrals
- Polynomial Approximations and Series
- Taylor Series

Materials

- *Spiral Notebook
- *2 sections in a binder (handouts and quizzes)
- *Graph paper
- *Calculator: TI84
- *Pencil
- *Colored Pencils

Office Hours/Communication:

I am available mornings from 8:30 - 9:15 daily.

Students are welcome to send me a note via email

I will send emails regularly to let parents know what is happening in the classroom. Please use schoology to keep track of assignments, quizzes, and test.

GRADING POLICY

Students' grades consist of formative and summative assessments throughout each unit.

Tests: 75% (Summative)

Quizzes: 25% (Formative)

Summative Assessments:

- Unit tests
- Projects

Formative Assessments:

- Quizzes
- Class activities and progress monitoring
- Homework

Between each summative you will have multiple progress checks through the AP online program. These are self-assessments that are worth points in the formative category. At the end of each marking period we will have one day that will be designated to the cumulative quarter exam. Everybody takes the exam. This test can replace any of the summatives given prior in the current marking period. No grade cap! Homework will be included in formative grade.

Formatives: If you do better on the summative I will replace your formative grade with the summative grade (up to 15 points)

Absences

All homework and assignments will be posted on Edmodo as well as the online textbook. In the event of an absence, it is the student's responsibility to determine what work was missed and to complete it within the timeframe dictated by District policy (See student handbook).

***If a student is absent for an assessment, he/she will schedule a make up upon their return.**

Technology:

Technology will be used to communicate with students as well as enhance learning. We will use various sites throughout the year.

- Schoology: Planner, polls, and a place to upload extra copies of all handouts
<https://sjesd.edmodo.com/>
- TI-84 Plus Calculator. Students can use this on ALL assignments and assessments
- Online teacher made videos: Students will use these videos for new material and review
- Livescribe Teacher notes posted on schoology calendar

Cheating:

Cheating/Plagiarism -cheating is the unauthorized use of notes or other forms of assistance(like the internet or cell phones), including electronic devices, to complete a test or assignment; and plagiarism is the unauthorized use of another person's work and calling it one's own. This includes students who let other people cheat off of their paper! Cheating is a level two offense and will result in a zero for the assignment as well as a referral and will be reported to any National Honor Society and Coaches.