

AP Calculus AB Course Disclosure and Syllabus

Periods 1-3

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2017-2018 School Year

Purpose

Calculus AB is primarily concerned with developing the students' understanding of the concepts of calculus and providing experience with its methods and applications. The courses emphasize a multi-representational approach to calculus, with concepts, results, and problems being expressed graphically, numerically, analytically, and verbally. Students will develop the understanding of the inter-connectedness of these four approaches to mathematics. The connections among these representations also are important.

*From the AP Calculus course description

The Exam

All students in this class will be expected to take the AP Calculus Exam at the beginning of May. The cost of the exam is around \$90. The exam is given in two parts: one part multiple choice and one part free-response. Students will be excused from classes the day of the exam.

The AP Calculus Exam will be held on Tuesday May 15th at 8:30 AM

Textbook and Other Resources

Instead of using a traditional textbook, we will be using online materials found at mastermathmentor.com. This website has a lot of material that is helpful in studying for the AP exam.

We will also be utilizing various other resources that the students will be informed of in class.

From time to time, we will be working out of Calculus published by College Preparatory Mathematics. This book is not useful when looking for example problems, rather it allows students to construct their own understanding of math. Examples will be done in class and can be found in a student's binder

*Students may want a study guide as the test gets closer. This may be a good investment.

Plagiarism and Cheating

Should a student be found cheating on any assignment or test, a score of 0 will be given. Examples of cheating include but are not limited to copying someone's work, trying to pass someone's work as your own (not participating in group assignments), and failing to give credit where credit is due.

Disclaimer

Please be aware that students will not be allowed to transfer out of AP Calculus after the first two weeks of school. We expect all students to persevere in their high school education until the end of their 12th grade year. If, after the two-week deadline, you'd like to discuss your child's participation in AP Calculus, please schedule a meeting with Mrs. Chandler.

Supplies

To be prepared for class, students will need the following supplies each day:

- Binder (this will be provided)
- Extra graph paper
- 3x5 notecards (approximately 50)
- Zipper Pouch
- Two sharpened pencils
- Graphing calculator (optional) *Students will use graphing calculators to help solve problems, experiment with calculus, interpret results, and support conclusions. While it may be useful for a student to have their own graphing calculator, the classroom set of calculators will be sufficient. If you choose to get a calculator, I suggest getting a TI-Nspire (do not get the CAS version as this is not allowed on exams)

Grading Policy

Homework	40%
Participation	20%
Assessments	40%

Assignments

The following assignments will be given to students throughout the school year:

- Daily Homework: Students will have an assignment each night which will then be due the next day. In an effort to help students consistently work on mathematics, no late work will be accepted.
- Exams: Exams will occur during the midterm and final weeks of the quarter. Make-up credit will be awarded for students who complete the process of test corrections. Exams are designed to prepare students for the rigor of college and will model the format of the AP exam.
- Practice AP Exams: Throughout the year, students will be given portions of a practice exam and will be graded in a similar fashion to the AP test. This score will be included in the assessment section of a student's grade.
- Binder Checks: Each day students will engage in an activity that will allow them to explore calculus. The student's participation grade will consist of these activities as they include them in their binders. This will be included in the participation section of a student's grade.
- Monthly Group Projects: Because learning to work as a team is a critical component to adult life, each month students will be given a group assignment that is due on the last day of the month. This will be included in the participation portion of a student's grade.