

## AP Calculus AB Syllabus

**Instructor:** Zach Brenneman

**Websites:** [brennemanmath.weebly.com](http://brennemanmath.weebly.com) (*Agenda, Assignments, Study Guides*)

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### Course Overview:

This course is approached with the idea of learning Calculus concepts through graphical analysis, numerical charts, analytical techniques and demonstrations. Students are required to demonstrate their ability to solve problems through a variety of approaches, and must demonstrate the ability to explain on paper the methods they used and the reasons for their choices. Students will have opportunities to work alone or in groups on course material.

### Course Objectives:

- Analyze the behavior of a function with and without the aid of technology.
- Calculate limits using graphs, tables, and algebraic techniques.
- Compute derivatives and apply this knowledge to analyze curves, rates of change, limits and slope fields.
- Compute integrals and solve application questions.
- Prepare for and pass the Advanced Placement Calculus AB Exam.

### Student Evaluations:

School Assignments (Homework)	30% of Final Grade
Tests	30% of Final Grade
AP Test Prep Quizzes	40% of Final Grade

- Assignments on my website are graded based on completion, not correctness. As long as you make an honest attempt on every question, and show all your work for every question, you will receive full credit. Khan Academy assignments are graded online, and are due one week after released.
- The lowest assignment score will be dropped at the end of every quarter for eligible students. Extra credit is awarded to students who have perfect assignment completion per quarter.
- Tests will be administered throughout the school year. Study guides will be provided on my website for every test. **You can retake one test at the end of every quarter.** If you retake a test, I count the higher of the two scores.
- Quizzes will be administered throughout the school year. I try to have you take three quizzes at the end of Q1, every other week during Quarters 2 & 3, and every week during Q4. The questions on these quizzes usually represent questions from past AP Calculus Exams. **The lowest quiz score will be dropped every quarter.**
- Extra Credit may be awarded to classes who successfully follow the Brenneman Classroom Rules for five consecutive school days.

### Materials Required:

Notebook, Pencils, Highlighter, TI - 89 Calculator.

- You'll need a highlighter to highlight your quiz/test answers. Students who do not use their own highlighter on their test will receive a 5% deduction on that test grade. You can not share highlighters on quiz/test days.
- If you do not want to buy a calculator of your own, the math department can lend you one for free.

## Extra Credit Opportunities / Demerits

At the end of every quarter and on some tests, there will be extra credit opportunities available to all students. To be eligible for these extra credit opportunities, you must not have any demerits in your name.

Ways you could earn a demerit:

1. Using your **cell phone**/gaming devices during class. These electronics must be turned off/on silent and in your backpack at all times. If your cell phone is in your pants pocket, or if it vibrates and I notice it, you will have a demerit in your name.
2. Coming to class **tardy**, or running in the hallway trying to make it to class on time. I am defining being tardy as not being in my classroom by the time the late bell finishes ringing.
3. Using the **bathroom** on note days. I know this sounds harsh, but many students in the past have abused bathroom privileges. If you need to go to the bathroom, try your best to do so in between classes. On test days, once you start the test, you cannot leave the classroom until you have finished your test. If you do leave the classroom before you finish your test, I'll have to collect your test and grade what you have at that time.
4. Not having your **student ID** on during class. Your ID should be worn around your neck and visible at all times.
5. Being out of **dress code**. The most common offenses are wearing hats/hoodies in class, and extreme cases where your midriff is exposed (skin between the chest and the waist) when sitting in your chair.

If you happen to accumulate one or several demerits (up to 9) in your name, you can come in after school to my classroom once a week for thirty minutes to get a single demerit erased from your name. Usually, the day to come in is Wednesday from 1:30 - 2:00. If you accumulate 10 or more demerits in your name throughout the course of the school year, you will no longer be eligible for any extra credit opportunities. Demerits carry over each quarter. If you think any of the above needs to be changed due to extenuating circumstances, let me know and I will try my best to find a reasonable compromise to suit your specific needs.

## Student Responsibilities:

If you miss class for any reason:

- It is your responsibility to get all notes and information you missed from myself or another student. Visit [brennemannotes.weebly.com](http://brennemannotes.weebly.com) to access the notes online.
- It is your responsibility to show me any assignments you completed during your absence. However many days you missed is the amount of days you have to make up your missing work. Visit [brennemanmath.weebly.com](http://brennemanmath.weebly.com) to access the weekly agenda and/or the assignments online.
- If you miss a review day for a test, you are expected to take the test on test day.
- If you miss a test day without letting me know, be prepared to make up the test at any time.

*\* All rules and guidelines outlined in the Student Code of Conduct are in effect at all times. \**

*\*\* Depending on the classes progress toward academic achievement, I have the right to change any of the above. \*\**