

2022-2023 Course Syllabus Pioneer High School

Course Title: AP Calculus AB
Instructor: Mr. Ryan Hansen
Room: C323

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Introduction: Welcome to AP Calculus AB! It is a true privilege to be working at Ann Arbor Pioneer and I am excited to dig in and work collaboratively with my students this academic year. I strive to provide the opportunity and atmosphere for students to express themselves and learn everything they can. I will make myself available to answer student and parent questions in a timely fashion. I will do my best to answer any question I am asked - within reason - or seek out the appropriate information as needed. More information on my credentials and background can be found via my website: www.HansenMath.com

Course Description: AP Calculus AB at Pioneer High School investigates topics typically taught in college-level Calculus I and Analytic Geometry courses: limits, derivatives, integrals and their applications. This course also focuses on preparation for the Advanced Placement examination - for potential college credit - as one of its primary objectives. However, students enrolled in this course are not obligated to take the examination.

Classroom Expectations: Students are expected to challenge themselves and strive to achieve maximum comprehension of Calculus concepts. This is a fast-paced course where effective and efficient use of class time is of critical importance. This classroom is designed to be a collaborative learning community where we strive to grow as individuals and as a collective unit. Respect, kindness, and encouragement is required of everyone. All Pioneer High School policies will be adhered to (for example, cell phones away during instruction, academic honesty upheld, appropriate use of language, etc.).

Grading Policy:

Classwork and Homework Assignments (Formative / 10% of quarter grade) will generally be assigned daily - also posted on Schoology - and it is expected that each assignment will be completed by the next class meeting so that questions concerning the exercises may be asked and answered in a timely fashion. Time will often be allotted in class for students to begin homework - to work together and ask questions before departure. Late work will be accepted through the following Saturday after it is assigned, with a late penalty assessed. Since solutions are frequently shared with this class, completion includes documenting the process of how to solve a given problem.

**If absent, it is the student's responsibility to consult Schoology and/or ask for missed work.*

Assessments (Summative / 90% of quarter grade) provide an opportunity for students to demonstrate mastery over several sections or an entire unit of study. Scores will be determined based on accuracy. Quizzes will generally be administered every 1-2 weeks. Chapter Tests will be administered whenever a unit of study has been thoroughly investigated. Students will be afforded several days' notice before a Test is administered.

A Word About Grades: This is truly a college-level course; you're just taking it within Pioneer High School. On the AP Test, students receive a score that suggests the equivalence of college credit/proficiency.

Per College Board: 5 – *Extremely Well Qualified* “A”; 4 – *Well Qualified* “A-, B+, B”; 3 – *Qualified* “B-, C+, C”; 2 – *Possibly Qualified* “n/a”; 1 – *No recommendation* “n/a”.

Scores from 3-5 are considered passing. The results from the 2022 AP Calculus AB Test have been released. The following represents the percent of Michigan students receiving each AP score: 5: 21%, 4: 17%, 3: 21%, 2: 24% 1: 17%. Thus, it's not reasonable to expect that every student – or the majority of students – will earn an “A” in this course. Please keep this reality in mind.

Supplies:

- Textbook: *Calculus: Early Transcendentals*. Anton, Bivens & Davis, 9th edition. Optional to check out of Book Depository. We typically use the AP curriculum in lieu of textbook.
- Graphing Calculator, TI-84. Highly recommended. Sanctioned calculator for AP Testing.
- Pencil
- Notebook/Folder to take notes, complete assignments, organize and retain paperwork
- AAPS-issued Chromebook or equivalent computing device

Extra Help: It is likely that this class may challenge you to change or modify your expectations and habits for learning mathematics. I will be available to help you during class and at lunch - all you have to do is ask! If this does not fit into your schedule, consider forming a study group to mull over problems that appear difficult. Most often, when great minds pull together, a solution is found!

I strongly believe education is a partnership between parents, teachers, students, and administration. If there is anything more I can do to make this year successful, please do not hesitate to contact me any time. I am looking forward to an awesome year!

Sincerely,



Mathematics Teacher
Pioneer High School