YOUNG WOMEN'S Leadership Academy

AP Calculus AB 2026-2027

Updated: August 7, 2026

Contact Information

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WHAT IS ADVANCED PLACEMENT (AP)?

AP courses aim to teach students the skills and information needed to pass an end of year exam given by College Board. Any student who receives a score of three (or above) on College Board's five-point grading system typically receives college credit by most public colleges.

Moreover, regardless of exam score, many colleges and universities view participation in the AP program as a sign of a motivated student. The course is advanced not only in reading and writing, but in the depth of the material. Students taking this course will learn at an accelerated pace and must exhibit responsibility, good work ethic, and a drive to learn to achieve college readiness skills and (potential) college credit.

COURSE DESCRIPTION

It's been said that change is the only true constant. Calculus helps make sense of change by grappling with questions that inspire thinkers from around the globe, across time, and in many disciplines. Can change occur in an instant? When is the next solar eclipse or the turning point for an economy? In AP Calculus AB, you'll develop a deeper understanding of mathematical principles that can help you answer questions such as these. This class is equivalent to a first-semester college calculus course devoted to topics in differential and integral calculus.

COURSE ACTIVITIES

Below you will find descriptions of the most common activities that students will participate in during the course of each semester. **Throughout the year, ALL students will:**

- Participate with in-class instruction (take notes). All instruction will be recorded and uploaded to Google Classroom
- Practice with homework to master homework checks
- Engage in classroom discussions regarding the material/class
- Get experience working AP style questions directly from College Board
- Solve real-world problems that arise from a need for Calculus

EXAM DATE: Monday May 10th, 2027

GRADES → YWLA Grading Expectations (PLEASE REVIEW!)

Major (Exams/Quizzes)	60%
Minor (Homework Checks)	40%

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YWLA High School Math all use homework checks as minor grades instead of homework. We believe that homework should be penalty free practice and that students should have access to immediate feedback. We make sure students have a way to check their answers as they are working out the problems. Each day, you will come in and take a short homework quiz that will check your understanding of the prior lesson.

CLASSROOM RESOURCES

- **AP Textbook:** *Calculus, Volumes 1 and 2* by OpenStax. 1 | 2
- **Google Classroom:** https://classroom.google.com/ **code: 6aawuhj3**
- **AP Classroom:** https://myap.collegeboard.org/login
- Course Exam Description (CED)
- **Desmos graphing:** https://www.desmos.com/calculator **and TI-84 Calculator (provided)**
- **Delta Math:** https://www.deltamath.com/

COURSE CONTENT (full Course Content found here)

Unit	Course Content	% of Exam
0	Precalculus Review	-
1	Limits and Continuity	10-12
2	Differentiation: Definition and Fundamental Properties	10-12
3	Differentiation: Composite, Implicit and Inverse Functions	9-13
4	Contextual Applications of Differentiation	10-15
5	Analytical Applications of Differentiation	15-18
6	Integration and Accumulation of Change	17-20
7	Differential Equations	6-12
8	Applications of Integration	10-15

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ADDITIONAL INFORMATION:

- The majority of the content will be delivered in-class. Please bring a charged Chromebook to class every day
- Feedback will be provided on your assignments and is an important part of the learning process. You will be able to learn from your mistakes and make improvements so that you may be successful in this course.
- The use of AI software (like ChatGPT) to gain an unfair advantage and/or to cheat is strictly prohibited.

Mr. Zubia