

# Advanced Placement Calculus AB

2020-2021

Mrs. Giocondi

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**Course Description:** Our Advanced Calculus AB course is designed to cover material that is equivalent to a college level Calculus I course. We will study three main themes: *limits, derivatives, and integration*. It is essential that students enter the course with a strong comprehension of topics covered in their previous courses. Most importantly, students must have a strong desire to understand the *how* and *why* behind the mathematics.

**Philosophy:** All concepts and problems in this course will be approached numerically, algebraically, graphically, and verbally. This course is designed to teach you to think mathematically and develop strategies to solve problems with little assistance from the teacher. Your skills will be developed through classroom discussion, small group collaboration, and labs.

## AP Test Details:

The AP test is currently scheduled on **Tuesday, May 4, 2021 at 8am**. The following is the ***typical layout of the test, but is subject to change.***

The AP test consists of 2 parts:

Section I -- Multiple Choice (105 minutes)

30 questions, 60 minutes, no calculator allowed

15 questions, 45 minutes, calculator required

Section II -- Free Response (90 Minutes)

4 questions, 60 minutes, no calculator allowed

2 questions, 30 minutes, calculator required

\*work must be shown, even when a calculator is used

A 3, 4 or 5 on the AP exam constitutes a passing score.

More information can be found at:

<http://www.collegeboard.com/student/testing/ap/about.html>

## Required Materials:

- 3-ring Binder
- Loose Leaf Paper
- **notecards**
- TI-84 Calculator Required

<b>Grading:</b>	(Approximate point values)
Tests	100 points
Quizzes	15-30 points
Free-response quiz	9 points per question
Labs	20-25 points
Projects	50-100 points
Practice Packet/Worksheets	15-30 points
Free-response questions	9 points per question
Homework check	10 points

***\*\*Practice AP questions and tests will be timed, graded, and scaled similarly to the actual AP test questions. The practice AP tests that will be taken will count as test grades (applies more to second semester).***

**Semester Exam and any Exemption criteria:**

**Not Yet Determined**

**Hybrid Class Expectations:** I expect my students to be scholars, thinkers, and higher-level learners. Being present in class each day is crucial to achievement. While attendance may be virtual for much of the class, it is expected that you will be actively engaged in the online content and ask questions when they arise. Having proper attendance will include being on the live lessons during your assigned block, completing the notes and completing all assignments.

**Behavior:**

1. Observe all rules in the student and UCPS handbooks.
1. Be ready to work when the tardy bell rings or when live streaming begins.
2. No food or drink other than clear water is permitted, unless otherwise documented in a health plan.
3. Respect people, equipment, and furnishings in our classroom.
4. Follow directions the first time they are given.

**Homework Policy:**

Homework will be assigned daily, and will be collected at the teacher's discretion. **Any homework collected will be graded for completion and/or accuracy.** You should expect to spend a minimum of 1-1.5 hours per day on this course, probably more in the beginning as you spend time reviewing your previous math courses. **ALL** previous math courses will be utilized in Calculus.

**Calculator Policy:**

Students will be expected to complete problems both by hand and by calculator. Most tests will have a calculator section and a non-calculator section.

**Extra Help:**

Office hours will be available on Fridays by sign-up appointments during the specified time frame listed for the class on Canvas Calendar. Students can reach me via email or the Remind app, but please allow time for response if outside of school hours.