

Advanced Placement Calculus AB

2021-2022

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 **Monday, May 9, 2022 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
- Barron's Book (second semester)

Grading:	(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

Class Expectations: Having proper attendance, completing notes, participating in class, and completing all assignments will be critical for success.

Behavior:

1. Observe all rules in the student and UCPS handbooks.
2. Be ready to work when the tardy bell rings or when live streaming begins.
3. **No food or drink other than clear water is permitted**, unless otherwise documented in a health plan.
4. Respect people, equipment, and furnishings in our classroom.
5. 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 accuracy.** You should expect to spend a minimum of an hour 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 have a calculator and non-calculator section.

Extra Help:

- Remind App (refer to Canvas home page)
- Email (questions asked outside of school hours will be answered on the next school day)
- Morning times by appointment only.