

***Ola High School  
AP Calculus AB  
2020-2021***



**Instructor:** Ms. Coons – [laura.coons@henry.k12.ga.us](mailto:laura.coons@henry.k12.ga.us)

**Room #:** 125

**Remind Code:** @olacalc3

**Google Meet Code:** *can be found in Google Classroom in the AP Calculus header*

**Course Description:** **AP Calculus AB** (The equivalent of one semester of College Calculus)

**Important Dates:** (tentatively) Friday April 16<sup>th</sup>, 2021 – Mock AP Session (3:30 until ~7:30)  
Tuesday May 4<sup>th</sup>, 2021 – AP Exam

**Textbook:** Larson, Ron, and Bruce H. Edwards. *Calculus of a Single Variable, 10e, AP Edition*. Brooks/ Cole, 2014. (Replacement Cost: \$140.50)

**Additional Resources:** calculusmaximus.com                      CalcChat  
Fast Track to a 5    Barron's AP Calculus Flashcards, 2<sup>nd</sup> Edition

**Materials/ Supplies:**

You will need pencils, notebook paper/ notebook, a 3-ring binder, divider tabs, a study guide book (*recommended: Barron's or Princeton Review*), and a graphing calculator. The divider tabs should separate your binder into the following sections: Graphic Organizers, Notes, FRQs, and Assessments.

If you do not have a graphing calculator, and wish to purchase one, I would recommend either the TI-84 Plus CE or the TI-Nspire CX CAS II. Alternatively, you may check out a TI-Nspire CX to use for homework and the AP Exam. Please note that there are a limited number of calculators for check-out. \*\*\**During remote instruction, we will be using virtual calculators.*\*\*\*

**Technology:**

For Remote Learning, you will need to use your Chromebook to access Google Classroom. From Google Classroom, you can access Google Meet. We will also use Google Calendar, AP Classroom, Khan Academy, and other websites.

**Course Content:**

**1<sup>st</sup> Semester:**

- Unit 1: Limits & Continuity*
- Unit 2: Differentiation: Definition & Basic Derivatives*
- Unit 3: Differentiation: Composite, Implicit, & Inverse*
- Unit 4: Contextual Applications of Differentiation*
- Unit 5: Analytical Applications of Differentiation*

**2<sup>nd</sup> Semester:**

- Unit 6: Integration & Accumulation of Change*
- Unit 7: Differential Equations*
- Unit 8: Applications of Integration*
- AP Exam Review*

**Grading Policies:** You must show all work (even if you use a calculator) to ensure full credit is earned. This is particularly the case in AP Calculus. Grading is unweighted until the 10 points are added at the end of the year.  
40% - Practice/ 40% - Assessments/ 20% - Semester Final Exam

**Warm Ups:**

Students should enter class and immediately begin working on the warm up activity found on the board (*or Google Meet*). Students are responsible for these questions, as they are relevant to past, current, or future tasks.

**Homework/ Practice:** *Practice problems will be assigned regularly.* Mathematics is learned by practice; therefore, you are expected to do your homework when assigned. **You are expected to check your own practice problems** against the answer key. Please keep your assignments organized in your notebook/ binder at all times. *Always* show

all your work. This helps me see how you are processing the problem. If asked to, be able to explain your reasoning, verbally or written.

**Study Groups:** To help you master the content, I encourage you to form study groups to help you work through the problems. Collaboration on work often leads to a greater understanding of the material.

**Final Exam:** Semester final exams will count for the 20% of your semester grade. I highly recommend reviewing past material periodically so you are not overwhelmed at exam time.

Can you exempt the final exam? No, but you can have your Portfolio grade count as your SPRING SEMESTER final exam grade IF you meet the following criteria: 1) Attend and participate in the Mock AP Session, 2) Obtain a passing grade on the AP Calculus Portfolio, and 3) score higher on your Portfolio than your exam.

### **AP Calculus Portfolio:**

The AP Calculus Portfolio is a major assignment given before the end of each semester. More info will be shared.

**Attendance:** Attendance is extremely important. You miss valuable class discussions that help you master topics being covered when you are absent. It is the responsibility of the student to make arrangements to make up missed work or assessments and secure all notes from classmates. Class time will not be spent completing makeup work.

**Makeup Work:** A student who has been absent is responsible for contacting me to arrange for makeup work. Makeup work is eligible for full credit, but the student is responsible for obtaining and completing the work.

**Availability:** I am available for tutoring during 4<sup>th</sup> period Study Halls/ Senior lunch. I am also available by appointment after school to help you unless I have a meeting or a parent conference. After school tutoring must be scheduled in advance in order to avoid conflicts. I will be available before school 2<sup>nd</sup> semester. (\*\*\*) *For remote learning, please text me on Remind to set up a mutually convenient time for tutoring through Google Meet.* (\*\*\*)

### **Restroom / Hall Passes:**

*No passes will be issued during the first or last 15 minutes of the class period.* Passes are given using student grids.

### **In-Person Classroom Management Behavior Guidelines**

1. Come prepared (bring materials & homework, have personal electronics turned off & put away, etc.).
2. Be respectful (speak kindly, allow each other to learn, keep your workspace neat, etc.).
3. Work hard - BELL to BELL.

### ***\*\*\* Remote Learning Norms \*\*\****

1. Access Google Meet through Google Classroom on your Chromebook.
2. Mic Off/ Camera On - to ask questions, either unmute or type in chat box
3. Stay Engaged - you never know when you will be called upon!
4. Stay positive and be willing to adapt in our virtual environment.

**Parents/ Guardians:** Please click the link below and complete the google form to virtually sign and acknowledge that you have read the syllabus, understand the syllabus and accept the requirements for the course.

[Syllabus Sign-Off](#)