

Ola High School AP Calculus AB 2019-2020



Instructor: Ms. Coons – <u>laura.coons@henry.k12.ga.us</u>

Room #: 125

Remind Codes:

<u>1st period:</u> <u>3rd period:</u> @ohs125 @ohscalc3rd

(also sign up for AP reminds: @ohsap2020 to 81010)

Course Description: AP Calculus AB

The equivalent of one semester of College Calculus.

Important Dates: Friday April 17th, 2020 – Mock AP Session after school (3:30 until ~7:30)

Tuesday May, 7th, 2020 – 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, 2nd Edition

Materials/ Supplies:

You will need pencils, notebook paper, a 3-ring binder, divider tabs, 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.

Chromebooks/ Bring Your Own Technology (BYOT):

In addition to graphing calculator technology, we will periodically use technology as a tool for learning. Students who are found to be using devices for anything other than instructional purposes will be dealt with according to the school's disciplinary procedures.

Course Content:

1st Semester: 2nd Semester:

Big Idea 1: Limits Big Idea 3: Integrals and the Fundamental Theorem of Calculus

Big Idea 2: Derivatives 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.

80% - distributed evenly between 14 categories in the gradebook:

Homework, FRQs, each of 11 standards, and your final Portfolio

20% - Final Exam

Warm Ups:

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

Homework/Practice:

Homework is an important part of learning mathematics and will be assigned as necessary. A mixture of task related and textbook based assignments will be used to help students master the content being covered. You are expected to attempt, complete, and check every assignment. *Practice problems will be assigned regularly*. Mathematics is learned by practice; therefore, you are expected to do your homework when assigned. <u>You are expected to check your own practice problems</u> against the answer key. You are expected to keep your assignments organized in your notebook 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:

The 1st semester exam will consist of an FRQ quiz and reassessments over any two standards. The 2nd semester final exam will consist of AP FRQs and will count for the 20% final exam grade. I highly recommend reviewing past material periodically so you are not overwhelmed at exam time.

<u>Can you exempt the final exam?</u> You can have your Portfolio grade count as your 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 packet, and 3) Maintain an passing grade at all term grade postings.

AP Calculus Portfolio:

The AP Calculus Portfolio is a major assignment given before the review starts 2nd semester. The Portfolio consists of three parts and the overall grade counts in its own category in Infinite Campus. Part I will be a review of your three lowest standards. Part II consists of 10 daily multiple choice quizzes on Google classroom. Part III will consist of FRQ exercises and/or an AP assessment.

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 meeting with me to school 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 4th 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 advanced in order to avoid conflicts. I will be available before school 2nd semester.

Restroom / Hall Passes:

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

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.

NO FOOD or DRINK!!! (CLEAR water in its original container is allowed)

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Please fill out, sign, and return this form. There is a reward for anyone who returns the form during the first week of school!

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I have read and understand all of the objectives, requ	uirements, and expectations for this course.
Student name (please print)	
Student signature	Date
Parent/ Guardian name (please print)	
Parent/ Guardian signature	Date
CONTACT INFORMATION: Please let me know to	he best way to reach you (e-mail or phone):
Parent/ Guardian E-Mail or Phone:	
	LA HIGH SCHOOL CALCULATOR AGREEMENT
necessitates the frequent use of a graphing calculator CX graphing calculator to your child for use for while in your child's possession, damages will be child's possession, you will be required to repla Nspire CX is \$150.	es in AP Calculus AB and success on the AP Examulator. Ola High School is prepared to assign a TI-Nspire the duration of the course. If the calculator is damaged be assessed. If the calculator is lost or stolen while in your acceptance of responsibility for the checkout and use of school year.
Student Name (please print legibly)	Student Signature
Parent Signature	Date