

AP Calculus AB
2022-2023
Ms. Park
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Overview:

It is expected that you have a strong foundation in algebra, geometry, trigonometry, and pre-calculus. I will hold a high expectation from you and that you are ready to be challenged and taken on a fast ride.

This is also considered to be a college-level class. As such, I will be treating you like college students. This means that more of the responsibility for your learning lies in your own hands than what you have been familiar to so far. I will be expecting a lot of participation from your side and decide on which strategy to use to learn a complex subject. So, continue to do the necessary work and take the responsibility to seek help when you need it.

Course Format:

AP Calculus AB covers all the AP Calculus AB topics only. The following is a list of major topics: Functions, graphs, limits, continuity, derivatives and their applications, integrals and their applications, and simple separable differential equations. The use of the graphing calculator to solve more complex problems is also explored.

In person - Cooperative Learning Groups

You will work together on some assignments in 2-4 person groups. Members of your group will make oral presentations before the whole class in which you present your ideas and answer questions from your classmates. You will also solve homework problems on the board and present them. The emphasis of the presentations is on the general understanding of the principles involved and how you solved the problem (showing work) in addition to the correct answer. Explanations are as important if not more important than just answers. Practicing this type of discourse about the calculus concepts is excellent preparation for the AP exam, which relies heavily on justifying solutions.

Virtual – Cooperative Learning Groups

If there is ever a time where we may have to shift instruction virtual (if decided by the district only), I will be doing the lessons live for you to join through Microsoft teams. Each day homework will be assigned and will be due at the beginning of the next class period. You will also be assigned a weekly that will be given and will be due the next week class. At the end of the block period the last 3 – 5 minutes you will have an exit question to answer before you can sign off. Please make sure to ask questions during we are online but if you have additional questions come back during my office hours for further help or send me a remind. Asking questions and participating in class will earn you class participation points.

Homework:

The problems assigned as homework in this class are designed to help you really understand the concepts developed in class. It is during this time when students can struggle with their individual challenges in understanding the material. Having someone else “tell you how to do it” will inevitably lead to a shallow understanding and low test scores. Some test & quiz questions will be similar to the problems you encounter in the homework, warm-ups, and online assignments. Writing clear solutions with written explanations in words and sentences and making sure to label your work (**rather than just answers**) will help you prepare for the AP test, class tests and whiteboard presentations.

There will be multiple platforms that will be used for homework.

Homework Submission -

- Assignments may be turned in "electronically," and are due prior to the start of class on the due day. Once the OneNote is set up, students will upload their work on the appropriate page in the Homework folder of your OneNote notebook. If work is not actually done in OneNote, pictures of the homework can be uploaded directly to OneNote using the OneNote app
- In addition, students will also be using an online homework service. One is Webwork and another is Albert.io. The online homework will be worth a significant part of the homework grade.
- These online homework assignments (Webwork or Albert) will be automatically graded online.

For Albert you will get only one try, so, to earn full credits, a student must do all the work on paper and once the online assignment is submitted and graded, they will need to go back and do corrections on the ones they have missed using a different color pen/pencil to show distinctively where the corrections are. These should be upload together as one document in the appropriate homework page to earn full credit before the next class period. If corrections are not done, then they will earn just what score they earn in the assignment provided the work has been uploaded. If corrections are not done and work for the ones that the student got right are not uploaded, then the student will earn half of what the assignment score is.

For Webwork you have unlimited tries so you will earn the points that is your final score in webwork. You do need to do work which will be additional 10 points which will be entered in infinite campus as one grade at the end of the quarter.

- You will also receive a weekly that will be assigned every week. Work needs to be done and uploaded in the appropriate page in the homework folder in OneNote. It will be given on the block day, which will be due next Monday. I will have the answer keys out on Tuesday, so that you can do corrections and then the corrections need to be uploaded under the original document on Wed/Thurs to earn points back for the ones you missed.

Study Skills:

You are expected to bring to class daily your three-ring binder with tab dividers or your note taking technology tool. I will upload all materials (class notes, homework worksheets, or any related materials) in OneNote in the Content Library. Please make sure to ask for help as quickly as possible as the concepts builds on each other and if concerns are addressed immediately, you will be successful.

Tests & Quizzes:

Throughout a unit, quizzes will be given to check for your understanding.

Quizzes/tests will be of two types. One type is created using valuable resources and the other is created from old AP questions, using AP scoring guidelines. "AP type" quizzes/tests will be graded on a scale of 1-5 just like the AP exam. When counted in your class grade you will use a formula that translates AP scores to equivalent course grades from college classes. A "5" is an "A" in the equivalent college course. A "4" is an "A-, B+, B" range. A "3" is equivalent to a "B-, C+, C", etc. These types of quizzes/tests are intended to give you practice with the AP format as well as test your understanding of the material. Tests are given at the end of major units and are typically longer than quizzes. Test questions will be pulled from various sources including past AP exams. The format will be similar to the AP test in that it will include both multiple choice and free response types of problems. In addition, there will be both calculator-allowed and non-calculator parts of both the multiple choice and free response sections. This is the same type of format as the actual AP exam.

There will be a short 15–30-minute mini-quiz that will usually be one to two AP free-response question that is related to that chapter, or any concept learned earlier once every week. It will be scored in the actual AP format and will be scored on a scale of 0-9. It is extremely important to review your concepts even from previous chapters as these mini quizzes will be from any topic learned.

Missing/Late Work

If you are having difficulty with anything in this course, please see me as soon as you feel that you have a problem. We can schedule a time that is convenient for both of us. If a student is absent during the week, it is expected that they will make up these types of assignments within the number of days that they are absent. If the student is absent two days, they will have two days to complete the assignment. Failure to make up the assignment by the makeup day will result in a zero grade for the assignment. **Late work will be 50% of the grade.**

In person - Office hours:

- Tuesday & Thursday 2:25pm – 3:00pm
- Students may also come for help during 5th hour (as this is my prep hour, students need to notify me earlier as I may not always be in my room).

Communication:

- 1) Remind - you will be given a code to join the specific class so that I can send out reminders or notifications in a quick text. If you have any immediate question, you can reach out to me through Remind.
- 2) Email – Please feel free to email me when you have a question, and I will get back to you within 24 hours.

Calculators:

The AP Calculus exams REQUIRE a graphing calculator. TI STRONGLY preferred. TI-84 or TI-Nspire will be demonstrated in class. (TI-Nspire recently had a new version, so can be found on eBay for around \$50) Also I strongly urge you to engrave your name on your calculator to make it easier for me to return a lost calculator to you.

Cheating:

Cheating is not acceptable in my class and consequences will be enforced. Both parties who participate in cheating (including tests, quizzes, homework) will receive a zero on the test or assignment. There are no exceptions as this is an area of **zero tolerance**.

AP Exam:

This class follows the AP Calculus AB curriculum as given by the College Board. Part of the AP program is taking the AP exam in May. As a participant in this class and the AP program, you are expected to take the AP exam. You do not need to have an A in this class to do well on the exam! Even if you do not score well, many colleges look more favorably on a student who took the course AND the exam rather than on someone who just took the course.

Attendance:

Attendance is required during every scheduled class period. The only way a student will be allowed to make up work is if his/her absence was excused through the attendance office. Students are allowed **10** absences and may be dropped from the course.

In person - Tardies: Any student, **who is not in their seat prepared to begin working when the late bell rings**, will be considered tardy, unless they have a signed pass. When a student is tardy, he/she will be assigned to stay back and work with the teacher after school. More than 5 tardies will result in phone call to parents and/or referral to the administration and may result in Saturday class.

Makeup Policy:

Makeup exams are given during office hours as we will need to keep moving during class, as this is a very fast paced schedule.

Grades:

Quarter grades will be broken down as follows:

Cumulative Point System – Standard Grading Scale

Tests & Quizzes 80%

Homework..... 20%

Quarter grades will be rounded as:

100%-90% = A

89%-80% = B

79%-70% = C

69%-60% = D

59% & below = F

Semester grades will be calculated:

40%-First Quarter Grade

40%-Second Quarter Grade

20%-Final Exam

Parent access directions for Infinite Campus

*** Step 1: Enter Your Email Address that you provided to your child's school**

*** Step 2: Click Submit**

*** Step 3: Open the email from Campus No Reply - campus@smtp2.cusd80.com (You may need to look in your spam or junk folder) and click on the link provided.**

*** Step 4: After clicking on the link from the above step, you will enter in a password and then click Create My Account.**

*** Step 5: Login to the parent portal with your new account.**

Appropriate use of technology – board policy IJNDC-R:

The Governing Board intends that technological resources provided by the District be used in a safe responsible and proper manner in support of the instructional program and for the advancement of student learning. It is the policy of the Chandler Unified School District to maintain an environment that promotes ethical and responsible conduct in all electronic resource activities by staff and students. The District reserves the right to monitor use of the District's systems for improper use without warning or prior consent. Students shall be informed that computer files and electronic communications, including email, are not private and may be accessed by the District at any time. Inappropriate use may result in disciplinary action and/or legal action in accordance with the law and Board policy. Please visit the student handbook at <https://www.cusd80.com/handbooks> for further details about appropriate use of technology use.

Diversity Statement: All individuals have a right to an educational environment free from bias, prejudice and bigotry. As members of the Hamilton High School educational community, students are expected to refrain from participating in acts of harassment that are designed to demean another student's race, gender, ethnicity, religious preference, disability or sexual orientation.

NO FOOD, DRINKS, OR GUM ARE ALLOWED IN THE CLASSROOM. ONLY WATER IS ALLOWED.

NO CELL PHONES OR HEADPHONES OR EARBUDS OR SMART WATCHES WILL BE ALLOWED IN THE CLASSROOM.

ANY USE OF PROFANITY IS NOT ALLOWED.