

# AP Calculus AB

## 2021 ~2022

### Instructor Information:

<b>Instructor:</b> Mrs. Ault Room 122 <b>Phone:</b> (775)851-5656 <b>Email:</b> <a href="mailto:aault@washoeschools.net">aault@washoeschools.net</a>	<b>Instructor:</b> Mr. Gannon Room 220 <b>Phone:</b> (775)851-5656 <b>Email:</b> <a href="mailto:pgannon@washoeschools.net">pgannon@washoeschools.net</a>
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### Course Description:

This is a one-year course designed to offer a formal Advanced Placement Calculus AB course for those students wishing to study mathematics on the collegiate level. The major topics of study are: limits, derivatives, applications of derivatives, integration techniques, applications of integration, introduction to differential equations, area and volume. Students must take the Advanced Placement Calculus AB Test given in May in order to get AP credit. This exam costs approximately \$95. Graphing Calculators are required. Students earning an A in the first semester of Calculus AB can concurrently take Calculus BC during the second semester. AP Stats can also be taken concurrently.

### Course Prerequisites:

Successful completion of Pre-Calculus with Trigonometry. The math department recommends that students who take Calculus AB have earned all A's and B's in their high school math classes.

### Required texts, course materials:

Materials to be brought every day to class

- Graphing Calculator (all students will be allowed to check out a TI-Nspire that is owned by the school; Students will have the option of purchasing this calculator at the end of the year for the reduced rate of \$70.)
- Paper, pencils, and pens
- Textbook (CALCULUS AP Edition copyright 2014 by Briggs, Cochran, and Gillett)

### Course Requirements:

Type	%	Policy
Assignments	10%	<b>Homework</b> will be assigned daily, and will be due the next class meeting. Late assignments will be reduced by 50% and will be accepted prior to the test for that unit. Students who complete every assignment for the semester will earn a 2% bonus.
Quizzes	15%	<b>In- class quizzes</b> will be given daily, and will be worth 5 – 10 points each. <b>myAP quizzes</b> will be given periodically, and will be worth around 10 points.
Tests and Projects	60%	There will be 4-5 <b>tests</b> each semester, and each test is worth 100 points. Tests will always be announced in advance. There will be one <b>project</b> , assigned after the AP Exam in May, worth 100 points. The Review Test (semester 2) is worth 200 points.
Final Exam	15%	A final <b>exam</b> will be given at the end of the semester. Students will receive a practice final prior to this exam. If applicable, the final exam will replace a student's lowest test score. The Review Test (semester 2) is not eligible to be replaced by the final exam.

## Grading Criteria, Scale, and Standards:

### DRHS/WCSD grading scale:

- A: 90% - 100%
- B: 80% - 89.9%
- C: 70% - 79.9%
- D: 60% - 69.9%
- F: <59.9%

### Make-Up Work

- Make-up work is defined as scheduled tests, scheduled quizzes, homework assigned on the day the student was absent, and/or a description of the topic(s) covered in class while the student was absent and possible resources where the student can obtain information on the topic(s).
- It is the responsibility of the student to request make-up work after returning from an absence and return the completed work within the designated deadline.
- Students are provided the length of the absence plus one day to complete any make-up work Assigned . For example, if the student was absent for four days he/she will have five days to complete and submit the make-up work.
- Students who do not request or return completed make-up will not earn credit on missed assignments.
- Make-up work need not be identical or equivalent to that missed due to the absence but will ensure that the student has the opportunity to meet the academic standards.
- Previously assigned work that was due on the day the student was absent is NOT considered makeup work and is due the day the student returns to school.
- The teacher must provide make-up work to the student within 2 days of the student's request.

## Tentative Course Outline:

### Semester 1

- Ch 2: Limits
- Ch 3: Derivatives
- Ch 4 Part I: Applications of Derivatives
- Ch 4 Part II: More Applications of Derivatives
- Ch 5 Part I: Introduction to Integration
- Final Exam

### Semester 2

- Ch 5 Part II: More Integration
- Ch 6: Applications of Integration
- Ch 8: Differential Equations, Area, and Volume
- FRQ Project (worth 100 test points)
- Final Exam

## Communication:

- The Calculus classes will use Teams as the primary communication tool.
- Students will be using resources from [www.mathguy.us](http://www.mathguy.us) on a regular basis.

## High School/WCSD Policies

### Academic Integrity:

Cheating means gaining unfair advantage by using unauthorized information.

Cheating is further defined by but not limited to:

- **COPYING** someone else's homework, classwork, or test answers
- **ALLOWING** someone else to copy your work or test answers
- **USING** any kind of unauthorized device, study aid, or cheat sheet
- **POSSESSING** or **VIEWING** a copy of an exam beforehand
- **SHARING** test information with students who have not yet taken the test or course
  - \* This includes taking answers/questions from a test out of the classroom without the permission of the teacher.
- **CHANGING** your answers or someone else's when correcting in class
- **MISREPRESENTING** work done by others as your own work.

Plagiarism is presenting the words or ideas of another person as one's own without citing sources.

- **YOU ARE PLAGIARIZING** when you copy a phrase, a paragraph, a page or an entire paper.
- **YOU ARE PLAGIARIZING** when you copy from a published source, i.e. Internet or print.
- **YOU ARE PLAGIARIZING** when you copy from someone else's work.

Minimum consequences for cheating are as follows:

- **REFERRAL** to Student Services
- **PARENT CONTACT** by the teacher
- **LUNCH DETENTION** with Student Services
- **NOTATION** made in school discipline record

Additional consequences may include, but are not limited to, the following:

- Student will receive a **ZERO** on the test or homework assignment
- Student will receive an **"F"** in citizenship for the quarter and depending on the severity of the infraction may receive an **"F"** in citizenship for the semester
- **Alternative assignment**, to be determined by the teacher

Be Responsible. Make Wise Choices. If you are unsure, ask your teacher for guidance.

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**AP Syllabus Addendum:**

As part of taking this Advanced Placement (AP) class, students will be required to set up an online account with the College Board (the company that oversees the AP Program), if they don't already have one. With a College Board account, students can access AP curriculum supports, SAT and AP scores, and send them to colleges. Additionally, an account lets students manage personal college lists, save scholarship searches, compare costs at colleges of interest, and more. When setting up the account, students will need to use a personal email address in order to have access to the account long term, since their WCSD email address will no longer be active after the student graduates. They will also need to supply the College Board with identifying information such as full name, email address, high school name, year of graduation, and home address. You can access the College Board Terms and Conditions here: <https://about.collegeboard.org/site-terms> and their Privacy Policy here: <https://about.collegeboard.org/privacy-policy>. By signing the syllabus for this course, I acknowledge the foregoing account requirements and consent to my student registering for an online account with the College Board using the foregoing required information.

**Temporary Distance Learning:**

- THE ONLY STUDENTS TEMPORARY DISTANCE LEARNING WILL BE STUDENTS EXCLUDED FROM IN PERSON INSTRUCTION DUE TO COVID.
- **TEACHER** WILL POST DAILY ASSIGNMENTS AND INSTRUCTIONAL MATERIALS ON TEAMS.
- **STUDENT** WILL ACCESS ASSIGNMENTS AND INSTRUCTIONAL MATERIALS THROUGH TEAMS.
- **STUDENT** PARTICIPATES IN TDL BY MESSAGING HIS OR HER TEACHER THROUGH TEAMS DURING THE CLASS PERIOD.
- IF A STUDENT DOES NOT MESSAGE HIS OR HER TEACHER DURING THE CLASS PERIOD, HE OR SHE WILL BE **CONSIDERED ABSENT** AND THE TEACHER WILL MARK **HDE** IN THE COMMENTS SECTION OF THE ATTENDANCE LIST TO MARK THE STUDENT ABSENT.

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Please Complete the form on Teams to verify that you have read and understand the syllabus and academic integrity policy.