

OHHS Mathematics Department

Course Syllabus



Course Name: AP Calculus AB

Course Code: MA050C, MTH172, MTH173

Course Description:

Calculus is a continuation of the concepts of Pre-Calculus, including the study of all types of functions. The main topics of the course include derivatives, integrals, and the application of both. The primary goals are (1) prepare students for the AP exam and (2) prepare students for college-level math classes. Students have the opportunity to receive college credits by passing the Advanced Placement Exam given in May. Students may also receive college credit by enrolling in CWU Math 172/173--Calculus I & Calculus II. A Placement test for the CWU class is required.

Prerequisites

Pre-Calculus teacher recommendation is required

Course Resources & Technology

Textbook: **Calculus for AP** by Ron Larson & Paul Battaglia (Cengage Learning)
A class set of TI 84-Plus CE calculators is available for student use in the classroom. Students who plan to pursue math, science or technology beyond high school are encouraged to purchase their own graphing calculator.

Course Fees

None

Course Outline/Instructional Units

Limits and Their Properties
Differentiation (aka finding Derivatives)
Applications of Differentiation
Integration

Differential Equations
Applications of Integrals

Major Assessments

Major Assessments will include end of unit exams for each unit of study. Central Washington University produces the final exams for this class.

Extra Help

Your teacher is available most days before and after school to provide assistance. In addition, several Calculus BC students are available, on request, for tutoring. Students are encouraged to form study groups in order to provide support for each other. Collaboration is a proven path toward greater understanding.

RE-DO POLICY:

OHHS is an effort based school where we believe all students can learn. We also know that students learn at different rates. Thus, we are implementing a re-do policy that recognizes the needs of individual learners.

- Students may make corrections on their tests to earn half-credit back on problems that were missed. This opportunity will be available until the date of the next test.

Weighted Categories

Set department categories and weighting

Category	Percentage of Overall Grade
Classwork/homework	10%
Assessments/quizzes	75%
Final	15%

Grading Scale:

Regular Scale	
Letter Grade	Percentage
A	90% and Above
A -	85%-89.99%
B+	83%-84.99%
B	77%-82.99%

B-	75-76.99%
C+	73%-74.99%
C	67-72.99%
C-	65-66.99%
D	55%-64.99%
F	54.99% and Below

OHHS PLAGIARISM POLICY:

Any student, who knowingly turns in any work that has been done by someone other than himself or herself, and fraudulently represents it as his/her own, shall be considered to have cheated. Cheating also includes: aiding someone else in cheating, the use or preparation of written, pictorial, electronic or other materials not authorized by the instructor during a test or assignment, the use of testing materials obtained previous to the test date, or plagiarism of any kind. Students found cheating will also be subject to an office referral, which could result in a suspension. As an effort based school, students who have plagiarized/cheated must still demonstrate their learning. Thus, students will be given the opportunity to complete the work. This will fall under the “Late Work Policy” of the teacher where total possible points may be reduced.