



# AP Calculus

Ms. Bonilla

**TEACHER CONTACT INFO:** Students and parents are welcome to email (best method of communication) or call me anytime. I also have a class website that I will update regularly with assignments.

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**COURSE OBJECTIVES:** This course is designed to give you a comprehensive understanding of differentiable and integral Calculus and prepare you for the AP Calculus AB exam. AP Calculus represents college-level mathematics through which you may be able to receive advanced placement and/or credit in college. You will be required to take the AP Calculus exam in May.

## UNITS OF STUDY

- Limits and Continuity
- Derivatives
- Applications of Derivatives
- Integrals
- Differential Equations and Mathematical Modeling
- Applications of Definite Integrals

## MATERIALS

- 1 ½ inch 3-ring binder with 8 section dividers (7 Textbook Chapters & Exam Preparation)
- Pencils, notebook paper, graph paper
- Calculator (TI 83+, TI 84+ or TI-Nspire highly recommended)
- Access to a computer/tablet for viewing PDF files of the textbook

**CLASS EXPECTATIONS:** Through this course, you will complete college-level work. It is a serious commitment which will require your motivation and dedication. Success in this class and on the AP exam will be dependent on your desire and devotion to learning the Calculus curriculum.

- **Be on time.** (In your seat when the tardy bell rings.)
- **Be Prepared and Responsible.** Have all materials as well as a good attitude when you come to class. Be sure to turn in assignments on time and be proactive if you miss work.
- **Be Respectful.** This encompasses many things and includes the teacher, your classmates, and our classroom. No vulgar language, excessive or loud talking, or disruptive behavior is acceptable. This is a classroom of integrity and learning and we are all a team. Thus, there is no room for discipline issues of any kind!
- **Follow Directions.**

**All school and county policies apply in this classroom.**

**Any behavior that is not conducive to the learning environment will NOT be tolerated.**

**CONSEQUENCES:** Consequences will vary according to frequency and severity of behavior, but may include verbal reprimand, parent contact and/or conference, after school detention, or an office referral for severe or continued issues.

**TARDY POLICY:** Be *in your seat* and ready to go when the bell rings. The tardy policy for my class will be in accordance with the **school's tardy policy**. If you have questions, see the student handbook.

**RESTROOM POLICY:** A student cannot learn if they are not in the classroom. Students are expected to use the restroom between classes and during lunch. Students will receive a sheet of restroom passes in the beginning of the each 9 week period and it is the student's responsibility to keep up with this sheet. There will be no additional passes given if a student loses theirs. Once these passes are used, a student may be allowed to go at the teacher's discretion. Any passes that are unused at the end of the semester will be used for extra points in the classwork/participation category.

**GRADING POLICY:** The HHS grading scale will be utilized: A (90-100), B (80-89), C (70-79), D (60-69), and F (59 and below). To get full credit on your homework and classwork you must show your work (steps) and be turned in on time. Late work can only receive a maximum grade of 50%, if accepted. **ALL WORK TURNED IN FOR A GRADE MUST BE IN PENCIL. Talking during a quiz or test may result in a zero! Cheating on a quiz or test will result in a zero, a parent contact, and a referral to the administration.**

Your grade will be calculated by assignment type/weight in the manner below:

Homework/Classwork/Participation:	15%
Quizzes:	25%
Tests:	60%

*Note: Midterms will count as two tests and the final exam will be 25% of your final course grade.*

**TESTS/QUIZZES:** Tests will be given for every chapter. Quizzes will be given for every section. There will be approximately two to three quizzes per chapter. Students should focus on correcting mistakes on quizzes to prepare for tests. Students who are absent on quiz/test days will need to make up the missed quiz/test as soon as possible.

**MAKE-UP PROCEDURES:** Being present and attentive in class is necessary for successful completion of this course. There is no substitute for hearing and participating in each class. Remember, you cannot receive credit for this course if you miss more than 10 days. In the case that an absence cannot be avoided, students must make arrangements with the teacher **within 3 school days** to make up any work missed. It is the student's responsibility to obtain any missed work and notes from another student or my website. Any missed work that is not made up will be given a grade of zero until made up.

**TEST CORRECTIONS/RETAKES:** AP Calculus is a college-level course and will be treated as such, therefore no test corrections or retakes will be given for quizzes or tests.

**PROGRESS REPORTS:** Students will receive progress reports every other Friday by county procedure. Parents please sign and send back with your child.

**STUDENT SUPPORT:** Students are encouraged to come in for help as soon as help is needed. An appointment is not required, but it is best for students to let me know when you are coming, so we can coordinate schedules. If there are any questions or concerns, parents may email me at: [rachel.bonilla@cravenk12.org](mailto:rachel.bonilla@cravenk12.org)

**PARENTS/GUARDIANS:** Please take the time to read over the information in this syllabus. Because of the nature of the material and the time provided to teach it, this class will be very rigorous and move at an extremely brisk pace. Students must be disciplined and serious about the course in order to succeed, and I strongly encourage student-led study groups. I am available in seminar or after school if a student needs some extra help. Please regularly check your student's grades online and feel free to email or call me as soon as a concern comes up or to discuss student progress. The earlier we identify a concern, the better. **Please sign and return the attached classroom expectations, and student contact sheet as soon as possible.** I look forward to working with you and your child this semester!