AP Calculus AB

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Text: Stewart, James. *Calculus: Concepts and Contexts*. Brooks/Cole Publishing Company, 1998.

Content: This course covers the syllabus outlined by the College Board for the AP Calculus AB Exam: Limits, Continuity, Tangent Lines (Chapter 2); Derivatives (Chapters 3); Related Rates, Optimization, and Curve Sketching (Chapter 4); Integration (Chapter 5); Area Between Curves, Volumes of Solids, Slope Fields, and Differential Equations (Chapter 6). After the AP Exam, students will learn some additional topics that will be explored further in AP Calculus BC.

Expectations: 1. Follow all school rules.
2. Treat each other and me with respect.
3. Arrive to class on time and prepared with your covered book, notebook, and pencil each day.
4. Put your completed homework on your desk and begin the warm-up upon entering class.
5. Raise your hand to be given permission to speak and remain attentive while others are speaking.
6. Keep your cell phone off and put away during class.

Notebooks: Students should keep a three-ring binder notebook, to be divided accordingly:
(1) Notes/Examples; (2) Handouts/Worksheets; (3) Homework; * AP practice problems will be kept in a separate binder

Attendance:
1. Class attendance is critical to your success due to the <u>fast and intense pace</u> at which material is covered.
2. If you are going to be late to school or must leave early, let me know beforehand.
3. Be in class on time! Lateness will adversely affect your participation grade.
4. It is your responsibility to complete all assignments, even if you are absent. You are expected to check OneNote, view the class notes and make an honest attempt at completing the homework problems. The fact that you are absent does <u>NOT</u> excuse you from being prepared for class upon your return.
5. <u>You are responsible for all material taught</u>. Your absence during a unit does <u>NOT</u> exempt you from having to learn the material in preparation for quizzes and tests.

Calculators: The TI-83 or TI-84 (or plus and/or silver models) is the best calculator for this course. It is <u>essential</u> that students have one of these calculators, since it will be used throughout the course. Students <u>must bring</u> their calculators to class every day. I reserve the right to <u>limit or prohibit</u> calculator usage on certain quizzes and tests.

Homework: When we review homework problems, students are expected to check their work and correct any mistakes. If you need extra help, please do not hesitate to see me after school with any questions you may have. Students begin each marking period with a bank of 70 homework points. Assignments less than half complete result in a 4-point deduction from the bank, and assignments over half complete but not fully complete result in a 2-point deduction. It is possible for students to end up with negative homework points.

Class Participation: Students begin each marking period with 21 out of 30 participation points. Each time a student explains the solution to a problem, he/she will gain an extra point. Points will be deducted if a student is inattentive, disruptive, disrespectful, behaving inappropriately, unprepared for class, uncooperative, late to class, or persistently absent from class.

Make-Up Work: It is solely the student's responsibility to make-up missed classwork and homework. All make-up quizzes or tests must be completed after school. Students will be given one day for each *excused* absence to make up their test, and the day you return to school counts as day one. <u>If you are absent the day before a quiz or test, you will take the quiz or test the next day with the rest of the class</u>. Students who miss a class due to an *unexcused* absence will be referred to administration for disciplinary action. I reserve the right to give an <u>alternate version</u> of any assessment.

Grading System: Students should check their grades using the Infinite Campus Portal, which will be updated after assessments are graded. Cheating of any kind will not be tolerated, and students will be referred to administration for disciplinary action. Marking period grades consist of: Tests and Quizzes (Summative) = 90%   Homework and Participation (Formative) = 10%

Students must show all work and write neatly so they may receive partial credit. All graded work must be completed in <u>pencil</u>. Grades will <u>not be curved</u>, and there will be <u>no extra credit</u>. Students must work hard from the beginning of the course and seek additional help as needed. Each marking period is worth 26%, 27%, and 27% of the overall grade, respectively. The combination of the final exam and performance assessments are worth the remaining 20% of the overall course grade.

AP Exam Information: The 2019 AP Calculus AB Exam will be given on <u>Tuesday, May 14 from 8am-noon</u>. Practice multiple choice and free response questions will be used throughout the course, so it is not necessary for students to purchase additional AP prep books. Students will spend <u>at least 3 weeks</u> completing full length practice multiple choice and free response exams in preparation for the AP Exam. A mock "*AP Simulation*" will be completed before the actual AP Exam to give students an estimation of how they will score on the actual exam.