

## AP Calculus AB Course Description

Teacher: Mr. Przydzial

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Telephone: (703) 228 – 6200

Office Hours: General's Period; Before school by appointment

Room: 4014

Course Overview: This is a college-level course in introductory Calculus. This course will cover the standards for the Advanced Placement Calculus AB course as well as the Calculus portion of the IB Math SL standards. Students will take the Advanced Placement Calculus AB Exam, the IB Math SL Exam, or both, in May. Instruction will be provided in the following areas:

1. Limits and Continuity
2. Derivatives
3. Derivative Applications
4. Definite Integrals
5. Differential Equations
6. Applications of Definite Integrals

Textbook: Calculus of Single Variable – Early Transcendental Functions (5<sup>th</sup> Ed.) by Larson & Edwards. This book can be accessed online.

Notes: Compared with other high school courses in math, this Calculus course will be more demanding in terms of the amount of studying required, since this is a college level course. Homework will average 30-60 minutes per class period. Solve your problems in pencil, neatly, and methodically in your notebook or binder. The habits you develop as you go through the course will hopefully be second nature to you during the AP/IB exam.

Time management in the classroom will receive high priority. You can expect to leave with material each day. It is understood that part of every assignment is the reading and rereading of each textbook section/notes before beginning homework. The more of this you do, the more you will be able to grasp the concepts. Notes should be taken daily.

Help: Please come in for help if you are confused or feel you need clarification on anything. Math Zero Period is available in Room 4016 every morning from 7:30 – 8:15 AM. The skills center is available during both lunch periods in Room 4017. Extra help can also be obtained during Generals Period. I am also available before school.

Calculator: I will be using a TI-84 during class. A TI-83 or TI-84 is recommended. You may NOT use a TI-89 or TI-92 at any time during this course since it is not permitted on the IB exam.

**Final Exam:** If students do not sit for the AP Calculus AB Exam or IB Math SL Exam (students are encouraged to take both), they will be required to take a Final Exam. If a student takes a Final Exam, then each quarter will be changed to a weight of 20% and the Final Exam will count as 20% for the year-end grade calculation. A Final Exam will only be given to students who do not sit for either the AP Calculus AB Exam or IB Math SL Exam.

**Evaluation:** Student grades reflect student achievement and not student behavior. All assessments, including quizzes, tests, quarter exams, and final exams, may contain any previously taught material

<b>Quarter Grades:</b>	
Tests	50%
Quizzes	35%
Homework	15%

<b>Final Course Grade:</b>	
1 <sup>st</sup> Quarter	25%
2 <sup>nd</sup> Quarter	25%
3 <sup>rd</sup> Quarter	25%
4 <sup>th</sup> Quarter	25%

Letter Grade	Percentages
A	90-100
B+	87-89
B	80-86
C+	77-79
C	70-76
D+	67-69
D	60-66
E	0 – 59

**Tests/Quizzes:** Tests and quizzes will be given as announced or unannounced. A missed assessment must be made up in one week, otherwise the score will be a zero. Assessments may NOT be made up during class time. There will be no retakes on tests and quizzes. As per APS policy, credit for make-up work is only given when the absence is excused. A zero will be assigned for any assignment or assessment missed during an unexcused absence.

Students are not allowed to borrow or share calculators on tests and quizzes. Sharing calculators is considered cheating, resulting in a zero on the assessment.

**Homework:** All students are expected to complete all assigned homework. Homework will be checked for completion daily. Each assignment will receive full credit if every problem is legitimately attempted. Partial credit will be awarded accordingly. Largely incomplete assignments or ones that are not legible will receive a zero.

Any late work will receive a deduction of 50%. Homework that is more than one class periods late will receive no credit. If a student has an excused absence, previously assigned homework (including papers and projects) will be due on the day the student returns. In the case of extended excused absences, students will be given a time frame to complete the assigned work (time frame will vary according to the length of absence). No credit will be given for work missed due to unexcused absences.

**Attendance:** Students are responsible to collect class notes and homework assignments from other students or the website if they are absent. If a student is absent on a quiz or test day, they are expected to touch base with me upon returning to school and that assessment must be made up within one week of returning to school. If a student has an unexcused absence or tardy, then no missing work or assessments will be accepted for that time period.

## **BEING IN CLASS DAILY IS VITAL TO SUCCESS IN THIS COURSE!**

Cheating: Whenever you claim another person's work as your own that is considered cheating. If you are caught cheating on **any** assignment including homework (for any class), I will write up a referral. If it is for one of my assignments (test, quiz, homework...) you will receive a zero. Sharing a calculator with a classmate during a test or a quiz IS considered cheating. There is absolutely no sharing of calculators during assessments. Academic dishonesty will be taken seriously and acted upon according to the procedures set forth in the student handbook.

*Honor Pledge "On my honor, I pledge that I have neither given nor received information on this assignment."*