New Paltz Central High School

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Welcome to AP Calculus

In this course, we will be learning differential and integral calculus. Where possible, topics in this course are introduced graphically, numerically, analytically, and verbally. The intent is to move beyond algebraic and symbolic aspects of calculus and give meaning and understanding through applications. In this course we will take the math you have learned thus far in your school career and apply it in a plethora of ways. We will look at business applications, sports applications, abstract mathematics, physics, etc. Besides applying calculus, there is a mechanical component of the course where students are expected to be able to work through calculations and concepts without the aid of a calculator. Students will also be expected to express in writing their solutions and process.

Expectations: Students will work hard and meet or exceed their personal goals for this class. I expect that every student will be prepared for each class period. As this is an AP course, students are expected to spend at least an hour of time outside of class for every hour of class time doing homework, working on problem sets, reviewing notes, or studying for upcoming assessments. The course is designed to deepen an understanding of the world around us and to align with Common Core standards and the AP Calculus curriculum. Students will take the AP Calculus AB exam on Monday May 9, 2022 at 7:45 AM.

Curriculum Topics:
Limits, continuity, derivatives (mechanically and conceptually), applied derivatives, anti-differentiation, integration, applied integration, and AP review.

Grading

Daily Check: 5 points
A short daily checkeroo will be given at the beginning of most classes. The daily check will be based on the homework and/or material from the previous class. Each quarter, two to four of your lowest daily check grades will be dropped. **If you miss a daily check due to an absence, you may make up the daily check as long as you make it up <u>before</u> the next class. If not, a missed daily check will count towards one of the dropped daily checks.**

Homework will be given on a daily basis in addition to problem sets that will from time to time be collected. I will announce when I plan to collect homework and will let you know how many points it will be worth. If you have questions on homework problems, feel free to work with a compatriot, look for resources on my Google Classroom or on-line, and/or come work with me during lunch, before school or after school.

Class Work and Problem Sets: 2 to 10 points
Some of the problems and activities that we do during class will be collected and graded. Problem sets will be regularly assigned as homework and collected and graded. All problem sets turned in <u>on time</u> may be corrected for full credit.

Quizzes and Tests: 20 to 50 points
There are usually 4 or 5 quizzes/tests per quarter. If you miss a test due to an absence, you will be expected to take the test the class you return.

Your Grade
Your quarter average can be determined at any time by adding up the number of points earned and dividing it by the total number of possible points.

Materials Needed
Please note that students are expected to have a TI-84 or TI-83 graphing calculator for use in this course. Also please also note that at many times, students will not be using any calculator!

Other Important Info

Missing Class:
If you miss class, you are expected to look on my Google Classroom to see what work you missed. You are also encouraged to come find me before the next class, either after school or during the day, to learn any new material we covered and to be prepared for the next daily quiz. Remember: If you plan to make up a missed daily check, you need to make it up **before** the next class.

After-School Help:
Please come after school anytime if you have questions or need help on anything. You can find me in the math office (room 214A) or in room 137 after school everyday. I am often here until the cows come home, so drop by anytime. You may also reach me through e-mail at kstewart@newpaltz.k12.ny.us.

Google Classroom:
I will post all assignments, solutions to homework questions, problem sets, video lessons, and announce upcoming tests and projects on Google Classroom, so check that regularly.

Let's work together to make this a productive and safe year for all of us!