

# Mrs. Schreckengost

## Period 1&7, Room 260

### AP Calculus AB

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#### Expectations

- Positive – Respect yourself and our classroom. Follow school rules. Disruptions will not be tolerated. Passes to lockers, nurse and the bathroom will be given only in emergencies.
- Prompt – Make it a point to attend class on time. If you are absent, it is your responsibility to make up any missed work. All make-up work will be kept in a binder in the classroom where it can be easily retrieved. The assignment must be turned in the day after you return, unless you make arrangements with me.
- Prepared – Have all the necessary materials in class daily. This includes but is not limited to a **MATH ONLY** spiral notebook/binder, pencil, calculator (TI 83 or TI84), and your textbook. Other supplies such as colored pencils and graph paper may be needed at times.
- Productive – You will be evaluated on how well you meet the course objectives. It is important that all assignments be completed and turned in on time.
- Question – Speak up in class! Ask and answer questions. If you need additional assistance, see me for extra help.
- Quality – Do your best at all times. Never give up!

#### Grading

50% Summative – Unit Tests, big quizzes

40% Formative – Quizzes, Daily quizzes, AP problems, collected assignments, projects

10% Homework – Checked daily for completeness. Each assignment is worth 5pts. Late assignments may get 3 pts if they are turned in **before the date of the test on that unit.**

\*All tests are announced in advance. If you are absent the day of an announced assessment, you must arrange a time, outside of class, to make up the assessment. Unannounced quizzes may not be made up.

\*You may choose to retake **ONE** designated formative assessment per quarter. The retake must occur within 1 week of the return of the assessment. If you are absent the day an assessment is given, you forfeit the right to a retake since you have had more time to study,

\*Once a test for a unit has been completed, no make-up work for that unit will be given out or accepted. This is the **final deadline** for any make-up or missing work.

\*There are no summative retakes in the course!!!

\* There is a new attendance policy and it will be followed in this course. Five unexcused absences will result in an automatic E for the semester. You can appeal, but it will be at my discretion if I overturn the grade.

\*An unexcused absence will result in a zero for the assignment that day. In addition unexcused tardies will result in a zero for the warm-up/activity given during that time period.

\*This is an AP course, and I expect AP level work from you.

\*If I see it, I will take it. This applies to cell phones, pagers, headphones, calculators used for games, and any other inappropriate material for school.

# AP EXAM: Wednesday, May 9 @8am

If you are in this class you are expected to take the AP Exam!

## Outline of Topics

### Fall Semester

- Week 1      Review of Pre-Calculus
- Week 2-3    Functions, Graphs and Limits  
              Analysis of Graphs  
              Limits of functions  
              Asymptotic and unbounded behavior  
              Continuity of functions
- Week 4-15   Derivatives  
              Concept of a derivative  
              Derivative at a point  
              Derivative as a function  
              Second derivatives  
              Applications of derivatives  
              Computation of derivatives

### Spring Semester

- Week 1-12   Integrals  
              Properties of definite integrals  
              Applications of the integral  
              Fundamental theorem of calculus  
              Techniques of antidifferentiation  
              Applications of antidifferentiation  
              Numerical approximations to definite integrals