

AP Calculus AB

Teacher: Mrs. Dennis

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Your power school access is a great way to keep up with your grades!!

Course Description:

In this course you will explore the concepts, methods, and applications of differential and integral calculus. You'll work to understand the theoretical basis and solve problems by applying your knowledge and skills. The course material is equivalent to a college Calculus course including the branches of single variable differential and integral calculus. A multi-representational approach is used throughout the course. Students are expected to take the advanced placement test administered in May.

Prerequisite: PreCalculus

Course Outline: *Tentative progression of material to be covered:*

Unit 1: Limits and Continuity

Unit 2: Differentiation: Definition and Fundamental Properties

Unit 3: Differentiation: Composite, Implicit, and Inverse Functions

Unit 4: Contextual Applications of Differentiation

Unit 5: Analytical Applications of Differentiation

Unit 6: Integration and Accumulation of Change

Unit 7: Differential Equations

Unit 8: Applications of Integration

SUGGESTED SUPPLIES

1-1.5 inch 3 ring binder, Loose-leaf paper, Graph Paper, Mechanical pencils or #2 pencils, Extra lead or handheld sharpener with cover, Extra pencil erasers

Scientific (*TI-30X IIS) / Graphing Calculator (*TI 84 Plus Series)

***These are the calculators we will use when necessary.**

OPTIONAL DONATIONS

Paper towels/Kleenex, Hand sanitizer/Clorox wipes, Dry Erase Markers , Extra copy paper/color paper, WorkCentre 6515 Ink

ALL classroom donations will be greatly appreciated!!!!

Grading Policy

Major Grades- 65%

Minor Grades- 35%

Homework will be part of the minor grade category. Several homework assignments will be checked and averaged together to make up the homework grade.

ATTENDANCE/MAKE-UP POLICY

Attendance is very important to success in the classroom. If you have an **excused** absence on "Quiz or Test Day" you will be allowed to take a make-up test. **It is your responsibility** to arrange a time to take the make-up test (preferably within two days of your absence). Communication is vital; please make it a priority to get missed work as soon as possible. Be proactive. **Email me or get a student in the class to get you missed work prior to returning to class.** Exceptions will be made for extended absences. Missed work must be made up in accordance with the Autauga County Board of Education policy.

DISCIPLINE PLAN

You are expected to be well mannered, cooperative, and respectful. You should be in your assigned seat by the tardy bell. At the start of class, you should settle down and begin work. If you are late to class without a pass, you will be required to report to the office. Any behavior, which prevents me from teaching or students from learning, is unacceptable. I will follow the attendance and conduct guidelines of our school and the Autauga County Board of Education. My goal is to create an atmosphere conducive to learning. Good behavior will be rewarded.

CONSEQUENCES FOR BREAKING CLASSROOM RULES

FIRST OFFENSE---Warning and counsel with student

SECOND OFFENSE---Break detention – (You will be instructed which break to report to me.)

THIRD OFFENSE---Parental contact (by note, phone, or in person) with break detention

FOURTH OFFENSE---Office referral

Severity Clause: If student's behavior is sufficiently severe, an office referral will be initiated immediately!!!

CLASSROOM RULES

- Be on time and prepared to learn every day.
- Keep all electronics put away.
- Be responsible for your own learning (If you miss something, find out what and make it up. If you do not understand, ask!)
- Respect others and their property. (Speak kindly, be considerate, be helpful, don't bother others or their property including the teachers and the administration, trash goes in the trash cans.)
- Speak softly in the classroom. (Use regular speaking voice during class discussions, talk softly during group work).
- Raise your hand to request permission or to receive help.
- Do your best work at all times. **(Don't waste time, write neatly and show your work, use a pencil at all times, pay attention)**