

HONORS CALCULUS/AP AB CALCULUS COURSE GUIDELINES

Mrs. McCarthy – Room B201

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A sample of topics to be covered:

Limits/Continuity

Derivatives/Differentiability

Applications of Derivatives

- Related Rates
- Particle Motion
- Optimization
- L'Hopitals Rule

Integrals/Anti-Derivatives

Applications of Integrals – Area/Volume

Differential Equations and Slope Fields

Supplies

- BIG Eraser (it is hard to erase a full sheet of paper with the tiny eraser on your pencil) ☺
- Pencils (work written in pen will not be accepted)
- A 3-ring binder with pocket dividers (2 inch recommended) to be used only for math.
 - Or, you could do two 1.5 inch binders – one for fall semester and one for spring
- Loose Leaf Notebook Paper
- Calculator. A TI-84+ or TI-84+ CE is required for this course.
- Water Bottle

Grading Policy

- Grades will be based on tests, quizzes, MathBoat, and Albert.io
- Quizzes will be short, frequent and may be unannounced.
- Tests will be given at the end of each unit and will be announced.
 - Standardized test questions will be included on each test. Also, tests will be divided into calculator/non-calculator parts as well as have multiple choice and written free response style questions to follow the format of the AP exam. These questions will not only ask you to solve problems, but they will ask you to explain your understanding of the question and answer in paragraph format.
 - Free-Response Questions (FRQs) will be graded based on the College Board scoring rubric

Class Work

- Students are advised to devote time every day for homework and review. Since this is a college level course, they will be expected to spend the necessary time to practice and learn the material. **Class attendance is extremely important.**
- Students will be responsible for all of their own work. Working with others on homework is great for help in understanding, but everyone must have their own answers.
- Students will also work in groups especially early in the learning process on some topics. You are asked to be helpful and explain to other students who might need help in understanding and listen to the approach others have taken in solving problems. Often, several approaches lead to the same answer and knowing multiple approaches helps your chance at success.
- Assignments will be given **daily** and will be posted in Canvas. Solution keys are also available in Canvas.

Classroom Expectations

- Follow all school rules and use class time wisely.
- **Give respect – Get respect!**
- Be ready to begin class when the tardy bell rings. There will be a daily warm-up to be completed upon entering class each day.
- Support your classmates when they need help
- Communicate regularly with Mrs. McCarthy when you need help, don't be afraid to ask!
- Bring supplies to class daily . . . **ALWAYS** be prepared!
- Participate in class discussion
- Bathroom breaks should be taken for emergencies only and should not be taken during teacher-led instruction. No bathroom breaks during the first 10 mins/last 10 mins
- Cell phone use is not allowed at any time during the class period – earbuds and cell phones should be stored in your bookbag
 - If you have an emergency and need to text a parent, just ask.
- I will dismiss you, not the bell

Possible **consequences** for breaking the classroom rules include phone calls to parents, teacher assigned detention, and referral to administration.

Attendance, Tardies, Make-up Work

- It is to your benefit to be in class every day. Use good judgment in scheduling doctor appointments, and other activities so that they do not interfere with your responsibility to attend class.
- If you have a planned absence, PLEASE let me know at least 2 days in advance and I will provide you with the information needed to stay caught up.
- Email me in the event of an emergency absence and I will send you what you need.
- **When you are absent on a test day or review day only, you will be required to take the test on the day you return.**

Help Sessions/Tutoring/Helpful Websites

- **Afterschool homework help sessions** will be available several days each week.
- PatrickJMT www.patrickjmt.com
- Paul's Online Math Notes - <http://tutorial.math.lamar.edu/>

“Only those who dare to fail greatly, can ever achieve greatly.”
~ Robert F. Kennedy

“Our greatest glory is not in never falling, but in rising every time we fall.”
~ Confucius

