**A.R. Johnson Magnet**

**AP Calculus Syllabus**

**Ms. Cassandra Hill, room 805**

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**Remind: https://www.remind.com/join/b2ek89c**

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**Welcome to AP Calculus!** My name is Ms. Cassandra Hill, and I have been teaching for 4 years and tutoring in K-12 and college math for 15 years. I have a bachelor’s degree in psychology and a master’s degree in education, both from Augusta University. I look forward to having an exciting and educational school year with all of you. I plan to follow the College Board AP Classroom framework to tie math into real life situations and to give students the content knowledge they need to succeed beyond the classroom.

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**Course Description:**

AP Calculus AB is an introductory college-level calculus course. Students cultivate their understanding of differential and integral calculus through engaging with real-world problems represented graphically, numerically, analytically, and verbally and using definitions and theorems to build arguments and justify conclusions as they explore concepts like change, limits, and the analysis of functions.

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**Course Outline:**

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

**Grading Policy:**

Middle and High school student performance will be reported in all courses by numerical grades, based on a 100-point scale.

* Calculation of Final Grades: Final grades will be determined by the cumulative semester average using the following criteria:

|  |  |
| --- | --- |
| Major Grades (tests, essays, projects) | 40% |
| Minor Grades (quizzes, coursework, labs) | 60% |

* **Major Grades**: Minimum number of major grades per 6-week progress report period = 2
* **Minor Grades**: Minimum number of minor grades per 6-week progress report period = 5

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**Launchpad, Canvas, and Textbook:**

* Launchpad is our single sign on platform. All the apps/webtools that students will access throughout the school year, and all their courses, can be found here. You may also download the Classlink app to your device to access Launchpad from your phone or tablet.
* Our learning management system, Canvas, can be found in each student's Launchpad. The courses they are registered for will be displayed on the Dashboard in Canvas. Click on each course to find announcements, assignments, and all online instruction. You may also download the Canvas app for parents and the Canvas app for students to your cell phone or tablet.
* Demana, Waits, Kennedy, Bressoud, Boardman. *Calculus: Graphical, Numerical, Algebraic.* 6th Edition.Pearson/Prentice Hall

**Late/Missing Assignments:**

* Late work is defined as assignments that are submitted after the specified deadline. This does not apply to work submitted late due to absence from school. Students are expected to submit assignments on time.
* Multiple incidents of late work may result in teacher-student-parent conferences to examine and correct the student’s work habits through an academic contract.
* Scores may be reduced by 5% per school day for a 25% maximum reduction (five school days).
* Late work submitted after the fifth school day will only be accepted at the teacher’s discretion.

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**Relearn/Reassess:**

Students who perform below 70% on a major assignment will be given the opportunity to relearn and reassess to show improvement in their mastery of the standard.

Students will submit a Relearning Plan as part of this process. This plan should include:

* Analysis of their errors or misconceptions on the previous major assignment.
* Complete assignments provided to relearn the content for mastery. Students may also attend a tutoring session.
* Complete and turn in any missing assignments.
* Commit to date(s) and time(s) to redo the assignment or retake the assessment.
* Share the plan with their parent and teacher for approval and signatures.

Upon satisfactory completion of the plan, as determined by the teacher, student should be given a minimum of one opportunity to be reassessed.

Teachers should have discretion to determine if R&R opportunities will be given for any minor assessment.

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**Tutoring:**

Tutoring is available as needed by appointment only. Please contact me by Remind or email if you are interested.

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**Classroom Expectations:**

* Be respectful of peers, school property, and teachers
* Come to class on time, be prepared, participate, and stay on task
* Be positive: learn from mistakes and celebrate each other’s success
* No cell phone use, eating or drinking during class time (water bottle is fine)

\*Students are expected to follow all school policies as outlined in the Student Handbook & Code of Conduct\*

**-----------------------------------Consequences**:

* First Offense: Verbal Warning
* Second Offense: Parent Contact
* Third Offense: Detention
* Fourth Offense: Office Referral

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**Supplies:**

* Spiral or composition notebook
* College-ruled paper
* Graphing paper
* One folder with pockets
* Pencils
* Highlighters
* Dry-erase marker
* Ti-84 Plus CE graphing calculator