**AP Pre-Calculus**

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**Course Overview:** APPre-Calculus is a fourth-year math option for students who have completed Advanced Algebra (or the equivalent). The course provides students with the opportunity to develop a deeper understanding of concepts in Algebra that are critical to the study of Calculus as well as an understanding of trigonometry and its applications. Throughout the course there should be a focus on notational fluency and the use of multiple representations. The course includes the study and analysis of piecewise and rational functions; limits and continuity as related to piecewise and rational functions; sequences and series with the incorporation of convergence and divergence; conic sections as implicitly defined curves; the six trigonometric functions and their inverses; applications of trigonometry such as modeling periodic phenomena, modeling with vectors and parametric equations, solving oblique triangles in contextual situations, graphing in the Polar Plane; solutions of trigonometric equations in a variety of contexts; and the manipulation and application of trigonometric identities.

**Prerequisites:** This course is designed for students who have successfully completed Advanced Algebra / Algebra II and prepare them for college Calculus courses.

**Textbook Requirements:** TBA

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| **Technology Requirement:** Students will need a computer every day for class. Calculators will be provided for daily use, but if a student has his/her own, that would be great!  **Supplies Needed:**   * Three Ring Binder * Pencils (no pens in Math!!!) * Scientific Calculator * Composition Book * Agenda or some sort of calendar to keep up with assignments and due dates * Graph Paper |
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**Additional Resources:**

DeltaMath

FEV Tutor

**Course Topics:**

Unit 0 – Think Like A Mathematician

Unit 1 – Polynomial and Rational Functions

Unit 2 – Exponential and Logarithmic Functions

Unit 3 – Trigonometric and Polar Functions

Unit 4 –Conic Sections and Vector Quantities

**Grading:** You will receive at ***minimum*** two graded assignments a week. Please be prepared to have at least two quizzes and a test per unit (unit material requires at least three to four weeks coverage time).

Grade Reporting:

Minor Grades – 60% (quizzes, labs, class assignments); minimum of 5 per 6-week period

Major Grades – 40% (tests, essays, research papers, projects); minimum of 2 per 6-week period

Final Exams/End of Course Georgia Milestones – 20% of the overall grade

**Assignments/Make-up/Redo Policy:**

* Classwork assignments are due at the end of the class period.
* You are only allowed to make-up/redo tests and quizzes; must be completed before or after school (plan in advance).
* **YOU ARE RESPONSIBLE FOR MAKING UP ANY MISSING ASSIGNMENTS!!!!!!!**

**Grade Recovery**

In the event a student fails the first semester with a 69 or below, they will be given the opportunity to complete a grade recovery assignment in Edgenuity. This will be executed in the fashion of having a contract sent home with the student where it must be signed by both the parent and the student. Once the contract is brought back, the assignments will be released for completion. All assignments must be completed with a grade of a 70 or better. Once 100% of the assignments are completed by the given deadline, the recorded report card grade will be changed to a 70.

**Classroom Rules/Expectations**

1) Come prepared, be on time and be ready to work daily.

2) Respect yourself, the teacher, and your classmates.

3) Put forth your best effort at all times.

4) Pay attention, participate, and ask questions.

5) No food or drinks (except water) are allowed!!!

6) Cell phones are NOT allowed during class time.

**Classroom Consequences**

1. Verbal reminder/warning
2. Individual conference with student and parent contact
3. Teacher assigned detention
4. Office Disciplinary Referral

All consequences will be aligned with the HHS school wide discipline plan.

**In order to schedule a conference with your teachers, please contact the Guidance Office 706-592-2089**