**Precalculus**

**Coach Wilmer**

**Course Syllabus 2024-2025**

**Course Description**

Precalculus 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.

**Textbook**

Sullivan: Precalculus Enhanced with Graphing Utilities, 8e

**Unit/Concept Names**

Unit 1: Modeling with Rational and Piecewise-Defined Functions

Unit 2: Modeling with Trigonometric Expressions and Functions

Unit 3: Applying Trigonometric Identities and Equations

Unit 4: Modeling with Conic Sections and Polar Equations

Unit 5: Modeling with Vector Quantities

Unit 6: Modeling with Sequences and Series

**Course work/Classwork**

Students will receive a variety of assignments designed to enhance their learning. If a student is absent, the student is responsible for the missed assignment.

Students are expected to submit work on time. Doing so exhibits pride in producing quality work and fulfilling student responsibility. This work habit is a behavior that supports academic achievement and demonstrates characteristics from our Richmond County School System Profile of a Graduate. Late work can negatively impact learning and your ability to demonstrate mastery of the standards.

When the assignment calls for students to produce original work, students will not use Artificial Intelligence (AI) to generate the assignment for them. Assignments are given to help students learn and demonstrate what they know. While there may be appropriate times for students to use AI during the learning process, using AI to generate original work in place of the student completing the work, is considered.

Academic Dishonesty and can be punished according to the rules outlined in the Code of Conduct.

***See RCBOE IHA-R Grading Practices***

**Late Work (Grading Policy- See RCBOE IHA-R Grading Practices)**

Students may have their scores 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.***

**Make-Up Work (Grading Policy)**

Students are expected to make-up assignments and assessments that were missed due to absence from school. Students are responsible for asking teachers for the make-up work upon returning to class. Make-up work should be completed by the student within **5 days from the day of absence.**

**Evaluation (Grading Policy)**

* Minor Grades 60% (Class work, Computer Assignments, Group Work, etc.)
* Major Grades 40% (Unit & Chapter Test, Projects, Tasks, Quizzes)

**Relearn and Reassess Plan**

For any major assessments, students will have the opportunity to submit a relearning plan for parent and teacher approval. Upon satisfactory completion of the plan, as determined by the teacher, students will be given a minimum of **ONE** opportunity to be reassessed. Only students scoring below 70 on a major assessment can complete a relearning plan unless exempted with parent approval.

Reassessments may be different from the original.

The reassessment score will replace the original score (the scores will not be averaged).

Reassessments should be completed **within 7 school days** of receiving the original grade. Teachers should have discretion to extend the timeline to address extenuating circumstances.

*See teacher class page for Relearn/Reassess*

**Classroom Procedures & Expectations**

The overarching expectation in this class is to represent WAR (W, Accountable, Respectful)

Below are the expectations for how to W.A.R. in class!

|  |  |
| --- | --- |
| **Wholehearted** | * **Actively Participate**
* **Encourage each other**
 |
| **Accountable** | * **Turn assignments in on time**
* **Arrive to class on time**
 |
| **Respectful** | * **Treat others the way you want to be treated**
* **Show courtesy of others personal space**
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**Course Materials**

\* One 3-ring binder \* Pencils (mechanical pencils preferred)

\* Handheld pencil sharpener \* Highlighters

\* Loose Leaf Paper

\* Coloring Utensils (crayons, colored pencil, or markers)

**My contact information:**

Email: wilmeal@boe.richmond.k12.ga.us

**Resources:**

Math XL

Delta Math

Khan Academy

Desmos

**Remind Codes:**
1st period: 1periodpre

5th period: 2bg3kb

**Student Contract:** I understand that all work should be completed on time. I understand that my teacher may deduct five points per day and communicate this in my Infinite Campus gradebook. I also understand that work turned in after the learning has occurred may not be graded (no more than 5 school days from the due date). I understand that using Artificial Intelligence to complete assignments where I am asked to produce original work will be considered Academic Dishonesty.

Student Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_

**Parent Contract:** I understand that my child is expected to complete assignments on time. I will

remain in communication with my child’s teacher and monitor missing and late work as noted in Infinite Campus Parent Portal. If my child continues to submit work late, I understand that a parent-teacher conference will be needed to co-develop a plan of action. I understand that my child should not use Artificial Intelligence to complete assignments where students are asked to produce original work.

Parent Signature:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_