Kenneth Stott

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Room 823

**HONORS PRE-CALCULUS**

**Course Syllabus Spring Block 2021**

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| --- | --- | --- | --- | --- | --- | --- | --- |
| Tentative Pacing | | | | | | | |
| Unit 1  **2 Weeks** | Unit 2  **2-3 Weeks** | Unit 3  **2 Weeks** | Unit 4  **2-3 Weeks** | Unit 5  **2 Weeks** | Unit 6  **2-3 Weeks** | Unit 7  **2 Weeks** | Unit 8  **2 Weeks** |
| Vectors | Introduction to Trigonometric Functions | Trigonometric Functions | Trigonometry of  General Triangles | Trigonometric  Identities | Conics | Matrices | Probability |

Pre-Calculus combines the trigonometric, geometric, and algebraic techniques needed to prepare students for the study of calculus, and strengthens students’ conceptual understanding of problems and mathematical reasoning in solving problems. Facility with these topics is especially important for students intending to study calculus, physics, and other sciences, and/or engineering in college. For this Honors Pre-Calculus course, instructional time will focus on the following critical areas: (1) using the unit circle to graph trigonometric functions and determine their characteristics; (2) extending knowledge of trigonometric functions to include inverse trigonometric functions with restricted domains; (3) deriving the Law of Sines and Law of Cosines then utilizing them to solve oblique triangles; (4) proving the sum and difference identities for trigonometric functions; (5) performing operations with matrices; (6) expanding understanding of conics to include a parabola, ellipse, and hyperbola; (7) performing operations with vectors; (8) extending understanding of probability to include permutations, combinations, and conditional probability.

**Classroom Expectations Necessary Supplies**

**\*\*\*Be ready \*\*\*TI-84 Plus CE Calculator is Recommended**

**but any of the TI 84 will be ok**

**\*\*\*Be respectful \*\*\*3-Ring Binder with dividers for each unit**

**\*\*\*Be responsible \*\*\*Regular Paper and Graph Paper**

**\*\*\*Follow all school rules \*\*\*Pencils**

**\*\*\*ruler or other straight edge**

**GRADING POLICY**

Major instructional units will have a minimum of two formative assessments for every summative assessment within that unit. Some larger units will have more than one summative assessment. Grades will be based on a percentage of points accumulated over the semester. Paulding County’s standard grading scale as outlined in the *Student* *Handbook* will be used. Point values for each assessment depend on the length, complexity, and difficulty of the activity. The distribution of the various semester grades is as follows:

* Semester Average = 80%

\*\*\*Summative Assessments = 71% of the Semester Average

\*\*\*Formative Assessments = 29% of the Semester Average

* Final Exam = 20%

**MAKE-UP WORK**

It is the student’s responsibility to get his/her makeup work. For excused absences, all makeup work must be completed in a timely fashion. All missing work will have a grade of “M” until it has been completed, turned in, and graded. If a student is absent on the day a long-term project is due, it is due the day the student returns unless other arrangements have been made.

**CLASSROOM DISCIPLINE**

If discipline issues arise the following steps will be taken to ensure that every student is treated equitably: 1) Verbal Warning; 2) Parent Contact; 3) Teacher Consequence; 4) Referred to Administration. *NOTE: These steps do not apply to tardiness and all Level II and Level III offenses.*

**BATHROOM PASSES**

The 15 minute rule will be in effect all year. You may not go to the restroom within the first or last 15 minutes of class.

**ACADEMIC HONESTY**

Students are expected to complete their own assignments to the best of their ability at all times. Those who cheat or plagiarize will not receive credit for the assignment and **will receive a grade of zero**. See student handbook for specifics on what will happen for the first offense, second offense, etc.

**ACCESSING STUDENT GRADES**

Each student’s grades and attendance may be viewed by visiting [www.paulding.k12.ga.us](http://www.paulding.k12.ga.us) or on the parent portal app. You must obtain a Key Code from the main office before you can log in. Directions for using the grade book system (Infinite Campus) are provided once you log in. Attendance is updated in real time, and grades are input weekly.

**EXTRA ASSISTANCE**

I am available for tutoring by appointment. **If you are coming to tutoring, you must be on time to tutoring so that no valuable time is wasted. You must also be prepared with specific work and topics with which you need help.**