**COURSE OUTCOME:**

* **Course Description**

This course develops the topics essential for success in Calculus. Content includes a study of algebraic, transcendental, and trigonometric functions, as well as their compositions and inverses, vectors, polar graphing, complex numbers, conic sections, and sequences and series. Students who complete this course successfully will have a strong background for a first-year Calculus sequence.

Prerequisites: Honors Geometry, and Honors Algebra II with an “A” or “B” average grades recommended OR teacher recommendation.

**INSTRUCTION:**

* **Topics Covered**
  + Functions and Their Graphs
  + Polynomial and Rational Functions
  + Exponential and Logarithmic Functions
  + Trigonometric Functions
  + Analytic Trigonometry
  + Applications of Trigonometric Functions
  + Polar Coordinates
  + Conic Sections
* **Materials Needed**
* Pencils
* 1-3 Subject Notebook
* Loose leaf Notebook Paper
* 1 inch Binder
* Tab Dividers
* 1 fine tip dry erase marker

\*Wish List\*\*

* Clorox Wipes
* Kleenex Tissue
* Hand Sanitizer
* **Fees**

All math courses have a $20.00 fee. This fee is for the purpose of providing calculators, batteries and supplies for classroom use. You can pay all school fees on the school website below: <https://www.knoxschools.org/site/default.aspx?PageType=3&DomainID=78&ModuleInstanceID=5082&ViewID=6446EE88-D30C-497E-9316-3F8874B3E108&RenderLoc=0&FlexDataID=42738&PageID=149>

* **Resources**

PreCalculus with Limits Textbook will be provided to the students. Student will be responsible for paying for all lost or damaged textbooks. Students will have access and use IXL for daily assignments and assessments. Students will also utilize the class website for class announcements, daily assignments, and projects: <https://sites.google.com/knoxschools.org/fall2018honorsprecalculus>

**ASSESSMENT:**

* **Expectations**

PreCalculus students will be expected to master all materials listed in the Tennessee State Standards. Mastery will be determined by unit tests and quizzes, projects, as well as the Knox County End of Course Exam.

* **Grading Policy**

Grades will be determined by accumulation of points.

Grade Scale:

A 93-100

B 85-92

C 75-84

D 70-74

F below 70

* + Chapter Tests and Quizzes – 45% of total grade
  + Homework , Class Assignments, and Projects – 40% of total grade
  + Knox Count EOC – cumulative exam which will count 15% of final grade
* **Explanation of Assignments & Projects**

PreCalculus students will be expected to complete class assignments and projects throughout the semester. Completion of daily assignments is critical to learning PreCalculus. There will be a minimum of five required projects throughout the semester. Projects will be relevant to current course topics and concepts may span several units. Students will also be required to keep a notebook during class. This notebook will contain pertinent information that will be used for studying for tests.

* **Make-Up Work Policy/Late Work Policy**

Students must complete make-up work within 3 school days upon their return from an absence. Any work that is turned in late will have 10% deducted from the grade for each day that it is late. Any work that is more than 5 days late will have 50% deducted from the grade. Tests and quizzes must be made up before or after school or during intervention time that is built into the school day. ***They cannot be made up during class*.** Scheduling a time to make tests up is the responsibility of the student!

* **Portal Post Policy –**

One way in which I am able to communicate with the student and parent is through the Aspen Parent Portal. Assignments will be posted weekly to Aspen, and grades will be updated as assignments are completed and graded.

**GENERAL EXPECTATIONS:**

* **Students:**
* **Attendance Policy**

***Attendance policy will follow the Gibbs High School student handbook.***

* **Classroom Policy/Procedures**
* **Classroom Rules:**
  + Be on time
  + Be prepared
  + Be respectful
  + Pay attention
  + No food or drinks
  + NO PHONES
* **Notes & Homework:**

Students are required to take notes daily during instruction. These notes will serve as a study guide for the lesson. Homework assignments should be completed and are subject to be collected at any time. Homework grades are based on the student’s ability to accurately complete problems similar to those done in each section of the chapter when the chapter is complete**.**

* **Honor Code**

Students are expected to do their own work. This includes class work, projects, tests, quizzes, etc. If students are found to be in violation of the Honor Code, a zero will be given on the assignment.

* **Plagiarism**

According to Harbrace Handbook, 15th edition:

“Plagiarism is defined as presenting someone else’s ideas, research, or opinion as your own without proper documentation, even if it has been rephrased.  It includes, but is not limited to the following:

* + - * Copying verbatim all or part of another’s written work;
      * Using phrases, figures, or illustrations without citing the source;
      * Paraphrasing ideas, conclusions, or research without citing the source;
      * Using all or part of a literary plot, poem, or film without attributing the work to its creator.”

Consequences of Plagiarism

Plagiarism is a form of stealing and academic fraud.  Students who are found guilty of plagiarism will have the option of either redoing the assignment within a specified time period and accepting a grade letter drop or taking a zero on the assignment.  Parents should be involved in making the decision.

* **Teacher:**
* **Communication Strategy:**
* Students are encouraged to communicate any problems they may be having with class content, projects, etc. to the teacher. Students are encouraged to check their grades on the portal frequently to maintain an understanding of his/her current grade.
* Parents are encouraged to email or call the instructor with any questions or concerns at any time.

**Email Address:** [**ashley.england@knoxschools.org**](mailto:ashley.england@knoxschools.org)

**Phone Number: 865-689-9130 x 72551**

* **Intervention Strategy –**

Tutoring will be available by appointment.