GSE Pre-Calculus Syllabus
Dutchtown High School
2020 - 2021

Teacher: Srinivas Garlapati   School Phone: (770) 515-7510
Email: srinivas.garlapati@henry.k12.ga.us   Room # 326

Course Description / Content:

 Pre-Calculus is a fourth mathematics course designed to prepare students for calculus and other college level mathematics courses. Pre-Calculus focuses on standards to prepare students for a more intense study of mathematics. The critical areas organized in eight units delve deeper into content from previous courses. The study of circles and parabolas is extended to include other conics such as ellipses and hyperbolas. Trigonometric functions are introduced and developed to include inverses, general triangles and identities. Matrices provide an organizational structure in which to represent and solve complex problems. Students expand the concepts of complex numbers and the coordinate plane to represent and operate upon vectors. Probability rounds out the course using counting methods, including their use in making and evaluating decisions. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

The following units will be taught in this course:
        Unit 1: Introduction to Trigonometric Functions
        Unit 2: Trigonometric functions
        Unit 3: Trigonometry of General Triangle
        Unit 4: Trigonometric Identities
        Unit 5: Matrices
        Unit 6: Conics
        Unit 7: Vectors
        Unit 8: Probability

Supplies:
    Binder

    Notebook Paper

    Pencils & Erasers

    Graph paper

    Scientific Calculator (Casio fx-115ES Plus) or Graphing calculator TI-84 .

Grading Procedure:

Practice assignments, homework and quizzes will assist students in self-assessment of mastery of standards and will contribute to the Practice Work Grade (40% of Final Grade). Test Grades will contribute to the Assessment Grade (40% of Final Grade). The remaining 20% of the Final Grade will come from an exam in December over all standards covered

Final Grade = 40% Practice Work + 40% Assessments + 20% Course Final Exam

Grading Scale:

| A = 90-100 | B = 80-89 | C = 74-79 | D = 70-73 | F = 0-69 |

Infinite Campus: Grades will be uploaded to Infinite Campus, on a regular basis. Each student will have a log-in. Parents are encouraged to have a log-in as well. Students and parents are strongly encouraged to monitor mastery of standards on a regular basis. Parents will be contacted by their child's teacher if his/her math grade falls below 75. Parents may contact the school's counseling office to set up a parent-teacher conference.

Classwork/Home work/Quizzes (Practice work) :
Warm-up and class or homework assignments will be made daily and are designed to help students understand, practice and apply the standards prior to being formally assessed on the standards. Quizzes over one to three elements of the standards will be given at least weekly. They should be used as an indication of whether further assistance is needed on a standard/topic. Warm-ups and homework will be checked for completion every day they are assigned.

Tests (Assessments) :
The course standards will be mastered through the completion of tasks and related practice. Quizzes over one to three elements of the standards will be given at least weekly. Unit tests over multiple standards will be given about every two to three weeks.

Semester/Course final Exam
Students will take the Pre-Calculus Final Exam over all of the units in the course in December 2020. It will count as 20% of course average.

Notebook :
Notebook should contain the course syllabus, unit plans, and all notes and assignments completed from each unit. It will be helpful to use dividers to separate your units. Your notebook should be updated . It will be an essential tool as you begin to prepare for the course exam.

Make-up Procedure: (Per student handbook)
It is the student's responsibility to arrange for make-up work. The number of days allowed to complete make-up work will be one day for each day absent, unless determined otherwise by the principal. Failure to comply with this make-up procedure will result in a zero (0) being given for work and graded assignments missed during an excused absence.

Tutoring:
Every Thursday 3:30 pm -4:30 pm in google meet

Virtual Class Expectations:

1. Show up at the scheduled time when a teacher is present.
2. Mute your mic when you are not speaking
3. Find a place free from distractions (avoid people in the background)
4. Raise your hand or use the chat feature to share your ideas or questions
5. Maintain respect in speaking, writing ,and appearance

How to pass this class: Doing the following items will help you be successful in this class:
1. Do assigned reading and practice promptly.
2. Use a planner.
3. Be present on a daily basis. If you are absent, make up work in a timely manner when you return to virtual class.
4. Use resources (websites, video lessons or text book)
5. Complete your assignments.
6. Study for tests (start reviewing for a test at least three nights before a test).
7. Ask questions when you do not understand.

Online Resources:
https://www.khanacademy.org/math/precalculus
www.patrickjmt.com
https://www.coolmath.com/precalculus-review-calculus-intro
GADOE
https://www.gadoe.org/Curriculum-Instruction-and-Assessment/Curriculum-and-Instruction/Pages/Math-Parent-and-Student-Resources.aspx

Flex Book: Henry County Schools GSE Pre-Calculus
http://www.ck12.org/user%3Adg93yw5kys5qyw1lc0bozw5yes5rmtiuz2eudxm./book/Henry-County-Schools-GSE-Pre-Calculus-FlexBook/r1/

Pre-Calculus Syllabus Acknowledgement

Parents, please click the following link and submit the Syllabus Acknowledgement Form.

https://docs.google.com/forms/d/e/1FAIpQLSfbyBNZ6D6RUG_-iWNLsthlKztdGcmR3pdq97TLvmP9J8N8dw/viewform?usp=sf_link