

# Pre-Cal Course Syllabus ( 2021 – 2022 )

A Sweeten

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## Class Overview/Objectives:

In this course, which as presented in Grades K-8, the basic understandings in number, operation, and quantitative reasoning; patterns, relationships, and algebraic thinking; geometry; measurement; and probability and statistics are essential foundations for all work in high school mathematics. Students continue to build on this foundation as they expand their understanding through other mathematical experiences. While studying Pre-Cal content, students will:

- Values of Trigonometric Functions
- Graphs and Properties of Trigonometric Functions
- Inverse of the Trigonometric Functions
- Trigonometric Identities
- Trigonometric Equations
- Applications of Trigonometric Functions
- Composition of Functions and Inverses
- Attributes of Piecewise and Step Functions
- Polynomial and Power Functions in the Real World
- Rational Functions
- Exponential and Logarithmic Functions
- Arithmetic and Geometric Sequences and Series
- Binomial Theorem
- Conic Sections and Attributes of Ellipses and Hyperbola
- Parametric Equations and Plane Curves
- Polar Coordinates, Equations, and Graphs
- Vectors
- Bridge to Calculus

## Student Expectations:

1. Master Pre-Cal Supporting and Readiness Standards
2. Successfully complete all course requirements, including class work, homework, quizzes, exams, projects, etc.

## Supplies needed EVERYDAY\*:

1. Sharpened pencil or pen
2. Composition Note book for DO NOW and note taking ( the notes are for you to use )
3. Other supplies as needed for projects

## Class Rules – All students must:

1. Be respectful of all teachers, students, and oneself at all times.
2. Be on time to class. Do not stand at the door between classes.
3. Be prepared. Bring all necessary materials to class (pencils, binder with paper, completed homework).
4. Be an active learner. Participate in class activities including classroom discussions, note taking, and cooperative learning.
5. Arrange for make-up work from absences on the day of your return.
6. Take Care of personal issues before class. Use the restroom in-between periods.
7. No cell phones or other electronic devices. (phones will be pick up as you enter class)

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## Classroom Routine:

1. Bell Work: Before tardy bell student should be in desk working on Do Now.
2. Review: Be prepared to share response or listen to clarify questions
3. Lecture: Be ready to receive a new lesson or review previous lesson
4. Guided Practice: Participate actively during class lecture/lesson
5. Independent/Group Practice: Work diligently or go to assigned group
6. Assessment: Verbal group or individual/Exit Card/Quiz

## Class Discipline Procedure:

If a student fails to follow any school or class rules, or has difficulty following class expectations or procedures within the class period, the following disciplinary procedure will be followed:

Step 1: Verbal Reminder with Written Documentation & Conference with Student

Step 2: Written Documentation & Conference with student & Parent Notification (via e-mail, phone call, voice message)

Step 3: Referral to Office

**(If Necessary) During Virtual Meetings**, students should be respectful, do not talk until asked to do so, Keep Mics and Cameras off unless asked to turn either one on. Do Not use bad language while talking on the mic or in the chat, REMEMBER all the meetings will be RECORDED and ADMIN has access to the meetings and can pop in at anytime !!!

## Grading Procedures for ALL graded work:

### Refer to the Student Handbook

1. Attendance is part of every class work grade (assignments, quizzes, tests, etc). If a student is tardy, their grade for the day's assignment(s) will be affected.
2. Work must be turned in on the due date in order to be eligible to receive full credit.
3. Refer to the handbook for the late work and grade percentages

I am looking forward to a successful and enjoyable year. This will rely on each person doing their part to contribute to a positive learning environment and experience. I expect all of my Geometry students to always conduct themselves in a manner that best represents their positive qualities and contributes to a successful, safe, positive, and enjoyable learning environment. Prepare to work hard as you expand your knowledge further in mathematics.

\*Timeline is Subject to change pending benchmark, assessment, half-days, and student prior knowledge retention.

Note to parents: if you ever need to contact me, please call the school [713-867-5100] and leave a message or schedule a conference. Virtual Meetings are also available !!!

**Thank you and lets have a great year! ( this page is for you to keep, please return signature page )**

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## Parent/Guardian and Student Signature Page

I have read the Geometry Course Syllabus and I understand the course requirements as well as the Classroom Rules and Procedures.

\_\_\_\_\_  
Student Name (print)

\_\_\_\_\_  
Student Signature

\_\_\_\_\_  
Parent/Guardian name (print)

\_\_\_\_\_  
Parent/Guardian Signature

7am – 4 pm Phone(s): (     ) \_\_\_\_\_ - \_\_\_\_\_

Home Phone or cell Number (     ) \_\_\_\_\_ - \_\_\_\_\_

Parent email address: \_\_\_\_\_

**Please return this portion by the next class meeting.**

*\* This form IS FOR A GRADE and must be returned to your teacher promptly*