



AP Pre-Calculus (2023-2024)

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Precalculus is one of the most powerful high school math courses—it changes students’ trajectories. **Students who take precalculus in high school are 155% more likely to complete a bachelor’s degree (AP College Board statistic)**, a higher boost in degree completion than students taking Algebra 2, Trigonometry, or Calculus. And taking even one AP course changes student outcomes, greatly improving their first-year college GPA and on-time college graduation rates.

AP Precalculus is designed for students who’ve taken both Geometry and Algebra 2. Students who’ve taken these courses at any level have covered all the content necessary for AP Precalculus. Students taking this course should have proficiency with:

- skills and concepts related to linear and quadratic functions, including algebraic manipulation, solving equations, and solving inequalities
- manipulating algebraic expressions related to polynomial functions, including polynomial addition and multiplication, factoring quadratic trinomials, and using the quadratic formula
- solving right triangle problems involving trigonometry
- solving systems of equations in two variables

In this course students will cover:

- Covariation, Rates of Change and Concavity
- Polynomial Functions
- Rational Functions
- Exponential Functions
- Logarithmic Functions
- Periodic Phenomena
- Trigonometric Functions
- Trigonometric Equations
- Polar Functions
- Parametric Equations (*time permitting*)
- Implicitly Defined Functions (*time permitting*)

Scan this QR code to read more about the Pre-Calculus course designed by College Board.



Classroom Expectations

- 1.) Be respectful – to teacher, self, others, and property.
- 2.) Be responsible – for your academics and behavior
- 3.) Be ready – with proper mindset and materials

Work Ethic

You should expect to consistently devote time to homework and studying for tests and quizzes. Your grades will not be given to you; you must **earn** them. I can guarantee you that I will treat each of you fairly and the grade you receive will be the one that you deserve.

Grading Policy

There are two categories that grades will be placed in: Daily Grades (50%) and Major Grades (50%). A daily grade can be, but is not limited to, homework, class activity, oral presentations, check for understanding, etc. A major grade can be, but is not limited to, chapter or unit tests, culminating tasks, etc. For more information on grading policies, see the Fort Bend ISD student/parent handbook.

Academic Dishonesty

We hold all students to a high standard in their academic integrity. To that end, any case of academic dishonesty will be handled using the following Ridge Point protocol.

1st Offense-Questions/Problems that have been manipulated given a zero; no chance for progressive/retesting; Discipline referral submitted; Teacher-Parent Discussion; Possible removal from organizations (NHS, SNHS)

2nd and following offenses-Entire assessment given a zero; no chance for progressive/retesting; Discipline referral submitted; Teacher-Parent-Administration Discussion; Possible removal from organizations (NHS/SNHS)

Progressive Testing

This option allows students to re-test non-mastered objectives by including the material in the next comprehensive examination. The comprehensive examination should include non-mastered objectives from the initial test and new objectives from the unit. The grade made on this exam will substitute the initial grade without a cap. For the final test of the term, students scoring below a 75 will be allowed to retest the new objectives only to improve their score up to a 75. This final retest opportunity must be completed on the designated re-test day either before school, during lunch, or after school. No exceptions will be made.

Attendance

This might seem obvious, but you need to be engaged in class **every day**. There isn't a day in PreCalculus that is not important to your success. If you are absent from class, it is **your** responsibility to get the information and assignments from your teacher or a fellow classmate. All assignments missed during your absence are due the day you return (including tests).

Make-Up Work

For **unplanned absences**, the student shall receive the same number of days, as he/she was absent to complete the daily work. In extenuating circumstances, a teacher may provide extended time for the completion of makeup work.

Planned absences (school related activities) are not excused from turning in assignments on time. If you know you are going to be absent for a school related activity, please let me know in advance of your absence if an extension is necessary. Notification after the planned absence has occurred will not be considered for extensions.

Being absent (planned or unplanned) does not excuse you from taking tests or quizzes on the day you return (this includes extracurricular activities). **Quizzes or tests that are missed will be made up the day you return to class, unless you have made other arrangements with me.**

Ridge Point Late Work Policy

OL	AAC/AP
<ul style="list-style-type: none">• One (1) day late = Maximum of an 90%• Two (2) days late = Maximum of an 80%• Three (3) days late = Maximum of an 70%• Four (4) days late = Maximum of an 60%• Five (5) days late = Maximum of an 50%• Any daily work turned after five (5) days will not be accepted and will be given a 0.	<ul style="list-style-type: none">• One (1) day late = Maximum of an 85%• Two (2) days late = Maximum of an 70%• Three (3) days late = Maximum of an 55%• Any daily work turned after three (3) days will not be accepted and will be given a 0.

***Homework grades will be input on the day due and will be updated again on the final day for credit.*

Tutorials

If additional assistance is needed, the following options are available or by appointment.

****No tutorials will be offered on test days.**

Carey (AP only):

Monday	Tuesday	Wednesday	Thursday
2:50 – 3:30 pm	6:50am – 7:30am	6:50am – 7:30am	2:50 – 3:30 pm

Nguyen (OL and AP):

Monday	Tuesday	Wednesday
6:50am – 7:30am	2:50 – 3:30 pm	2:50 – 3:30 pm

Conferences

To develop student self-advocacy, students should request a conference with their teacher prior to a parent-teacher conference. Parents may request a conference to discuss student progress towards proficiency after student-teacher conference.

Classroom Instruction and Communication

- You will need to take daily notes for success in the course. Copies of teacher notes may be available online or by request.
- Nspire CX calculators are used in class for graphing, investigations, and calculations when applicable. Tests are broken into calculator and no calculator sections, so students should be able to work both with and without technology. *You are not required to purchase a device, but it may be useful for at home practice. We will not provide devices for the AP exam, so students will need their own that day.*
- AP Classroom is utilized for student practice. When applicable, we will upload practice assignments for each concept we cover. These are for extra practice, but highly encouraged for student success.
- Schoology is an online learning tool to deliver announcements and useful resources, assign online homework and participate in online discussions. You can log in to Schoology through your [Link login](#).
- [Desmos](#) is used in class for mathematical investigations, but may also be used at home for access to a graphing calculator.

Supplies

Binder or notebook for notetaking and collection of resources

Pencils

Multi-Colored Pens or Pencils

Clorox Wipes

Tissue boxes

Computer or tablet for daily use in class (recommended)

Nspire CX (optional) **An Nspire CAS device is not allowed on the AP exam.*

Positive Attitude