

Luther Burbank High School  
Math Department  
Pre-Calculus  
2023 – 2024

*Our goal is to graduate all students, to prepare them for success in higher education, and to be contributing members of the community*

**Teacher:** Nikhil Ranjan

**Room:** #3211

**Email:** [nranjan1@saisd.net](mailto:nranjan1@saisd.net)

**Tutoring:** By appointment

**Conference:** 6th Period on B-Days.

T/R: 11:35 AM – 1:10 PM

F: 10:00 AM – 11:10 AM

**Course Overview:**

Pre-Calculus is a year-long course that provides a structured entry to advanced studies while building on concepts learned in previous high school math courses. Designed to be taken after Algebra II, Pre-Calculus builds upon students' understanding of various aspects of functions and expands their knowledge of trigonometric functions, all while helping them make connections between geometry and algebra.

This is certainly a rigorous course and it is beneficial for students to have a strong background in Algebra and Geometry, but even without it, the necessary skills can be acquired accordingly with diligent work. Remember, I am a resource and am here to help you if you feel like you're falling behind. Everyone is capable of succeeding here!

**Assessments:**

60% will come from Homework, Quizzes, and other assignments

40% will come from the Exams as well as some Projects

**Late Policy:**

A student is allowed to make up any assigned work till the relevant Unit is over. A point will be deducted from the overall grade each day it is late. For example, if an assignment is turned in 10 days late, the maximum grade a student can receive is a 90.

**Topics that will be covered:**

- 1) Foundations of Functions
- 2) Power Functions and Polynomials of Higher Degree
- 3) Rational Functions
- 4) Exponential and Logarithmic Functions
- 5) Basic Trigonometry and the Unit Circle
- 6) Sinusoidal Functions
- 7) Trigonometric Identities

- 8) Sequences and Series
- 9) Vectors
- 10) Polar Functions
- 11) Conic Sections
- 12) Introduction to Calculus (if we have time)

**Classroom Policy:**

- 1) No cellphones (school-wide policy). I will ask students to keep them in their backpacks but if I see them out, I will take them up.
- 2) All materials needed for class are there right when a student enters. They should grab what they need and be in their seat by the time class starts, working on the relevant introductory material.
- 3) Restroom passes (school-wide policy) will not be issued during the first 10 minutes of class and the last 10 minutes of class

**Materials needed:**

- 1) Notebooks (provided if a student doesn't have their own)
- 2) Pencils or Pens
- 3) Highlighters
- 4) Chromebooks

**Please detach this page, sign and date it. It requires both your signature and the signature of your parent or guardian. This will need to be returned to Mr. Ranjan by August 28th . Please fill out the information below as it will serve as contact information for me if ever I need to contact you.**

**We have read and understood the requirements, philosophy of teaching, grading policy and materials required.**

**Parent Information:**

Printed Name: \_\_\_\_\_ Phone Number: \_\_\_\_\_  
Cell Phone Number is Preferred

Email: \_\_\_\_\_

**Student Information:**

Printed Name: \_\_\_\_\_ Phone Number: \_\_\_\_\_  
Cell Phone Number is Preferred

Email: \_\_\_\_\_

\_\_\_\_\_

**Parent Signature**

\_\_\_\_\_

**Student Signature**