

Introduction

Pre-Calculus 10 is an introduction course to the mathematical fundamentals needed for Calculus. You will be experiencing the starts of logical proofs and plotting on the coordinate system. This course is designed to have you explore and come to justifiable conclusions with the help of the teacher and classmates, to that end the homework and classwork are an integral part of this experience. Though it is the fundamentals, the techniques used here will appear frequently should you continue with the Sciences into University.

Topic Outline

- Power and Exponent Operations
- Pythagoras, Trigonometry, and their Applications
- Factoring Polynomials
- Linear Functions on Cartesian Graphs
- Systems on Linear Equations
- Financial Literacy

Equipment

You'll need the following materials as a minimum to be successful in this course

1. A method to keep written notes (binder and paper)
2. Writing instruments (pen or pencil)
3. A simple scientific calculator (or a cellphone to use as collateral)

Assessment and Grading

Weight	Category	Details
10%	Homework	Homework will be check at the beginning of class. These are really to help you practice and review your learning.
10%	Random Quizzes	Random quizzes at the beginning of class on homework questions that were assigned before.
10%	In-class Group Work	Level of participation from 0 to 4 when assigned tasks or review during class
15%	Extension Questions	Additional Questions that will stretch your abilities and understanding of Calculus
15%	Chapter Test/Project	A test or project based assessment at the end of each chapter to showcase your learning.
20%	Midterm	An exam during the middle of the term
20%	Final	Semi-cumulative exam at end of term.

Classroom Policies

Leaving the Classroom

Please ask first! I need to know where everyone is in case of emergency. Additionally, during class there may be important concepts that I am covering and leaving will have a negative effect on your studies; during those times I will let you leave later as I finish the concept. If it becomes known that you left the school or didn't follow the spirit for leaving the class, you will lose classroom exiting privileges.

Work Expectations

We will be working till the end of each class. Achieving mastery in any area of study is a practice intensive process, and so we will be using the time after instructional time to practice, sometimes working as a group to better our abilities.

Missing Class

It is best to not miss class; however, life does sometimes get in the way of school. In those cases, it is your responsibility to determine the material you've missed and get caught up. I will not have the time to find you individually to provide the missing material. Good opportunities to come see me are during the X-Block on Wednesday or after school between 3:45 to 4:15.

Lateness

My classes tend to be information and practice heavy, which means time is an essential part of my lessons. Additionally, I could have quizzes at the beginning of class that will affect the in-class group work or homework category for the final grade. If you are late, please be sure to obtain a late slip from the front desk before coming to class. If you are frequently late, we will be having a conversation on class commitments.

Late Assignments and Homework

I will not accept late homework. Homework questions will be assigned regularly and are expected to be completed before the start of class. I will be going over questions people had difficulty with, effectively giving the answers.

Assignments (and Projects) have a 10% off per day policy. For every day that there is class, the work submitted late will lose an additional 10% from the total.

Academic Integrity

I take academic dishonesty very seriously. Please **DO NOT** submit work that is not your own!! Should I find evidence of plagiarism, all relevant parties will be approached, and the consequences determined on a case-by-case basis, with the possibility of principal being involved.

My Advice

Pre-Calculus 10 is the foundation on which you'll begin building the techniques and practices needed to apply to Calculus. It is imperative that you begin practicing now and to gain that solid foundation before moving forward. Daily practice in both writing and cerebral tasks is recommended.