

Pre-Calculus

Type: Online

Course Description:

Are your students intimidated about the prospect of having to take the “dreaded” Calculus course at some point in their future? Are you searching for a Pre-Calculus curriculum that will help your students master its topics and not only survive Calculus but even thrive? And all the while still enjoying the course? Your search is over.

StudyForge proudly presents: Pre-Calculus.

Pre-Calculus is the culmination of a students’ high school mathematical journey, as they learn the fundamentals of advanced functions, trigonometry, logarithms and more. The course thoroughly prepares students for the oncoming rigor of Calculus, yet does so in a manner that is compelling and rewarding, and fosters an appreciation for the real-life applications of each topic explored, as well as for math itself.

With auditory, visual, and hands-on components throughout, this is truly a course that suits all learning styles. The lessons are engaging, interactive and student-friendly, with interactive videos that allow students to pause and rewind at any point and go at their own speed, as well as fun, interactive applets and dynamic graphs scattered throughout that enhance student understanding.

Each video is accompanied by a student-friendly note package that allows students to take notes to whatever level of detail they like. There are also an abundance of practice questions for students to internalize the material, with full, detailed solutions for each, as well as a comprehensive review assignment and practice test. Furthermore, with randomized question banks, students can redo every quiz and test in the course to help them master the material and perform their very best.

This course is a prerequisite for students who might take Calculus (or AP Calculus) in the future.

Core Units:

- Review of Functions
- Exploring Functions
- Exponential and Logarithmic Functions
- Solving Triangles and Trigonometric Equations
- Trigonometric Functions and Identities



Elective Units:

- Quadratic Functions
- Sequences and Series
- Analytic Geometry
- Vectors and Matrices
- Limits

Assessments:

- Unit Note Package
- Lesson Practice Questions
- Quizzes (Mid-Unit and End of Unit)
- Unit Review Assignment
- Unit Practice Test
- Unit Test
- Projects

Student Requirements:

- Graphing Calculator for assessments (handheld or online)
 - Note: Every practice question has a built-in Desmos graphing calculator

