

Honors Pre-Calculus Syllabus

Contact Information

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Course Overview & Objective

Honors Pre-Calculus provides students the opportunity to study concepts of algebra, geometry, functions, number and operations, throughout the course. These concepts will prepare students to be successful in AP Calculus, AP Statistics, IB Math, and college courses.

Pre-Calculus is a much more rigorous math course than any of your child's preceding math classes. As a class, we will be less reliant on the graphing calculator as a source for answers. We will use the TI series calculators more as a tool for checking for understanding of the concepts taught and less as a crutch for quick easy solutions. Every student is responsible for showing their work on paper and then using the calculator to check their answers. There will be some units where the TI graphing calculator will not be allowed on tests/quizzes.

Course Pacing Guide

Each of the following topics will take approximately two weeks. Tests should be expected on Mondays at the end of the unit.

- Polynomial Operations & Factoring
- Polynomial Division & Rational/Complex Fractions
- Matrices & Vectors
- Introduction to Functions
- Polynomial Functions
- Rational Functions & Equations
- Exponential & Logarithmic Functions
- Conic Sections
- Right Triangle Trig
- Non-Right Triangle Trig
- Radians & Unit Circle
- Trigonometric Graphs
- Trigonometric Proofs & Equations
- Trigonometric Identities
- Inverse Trigonometry
- Parametric Equations

Grade Distribution

Students will receive an overall grade in Honors Pre-Calculus based on the following scale:

Tests	55%
Quizzes	25%
<u>Homework</u>	<u>20%</u>
Total	100%

Grade Scale

A	→	90-100
B	→	80-89
C	→	70-79
D	→	60-69
F	→	59 & below

Honors Pre-Calculus Supplies

Students may use any method they consider appropriate for taking notes, handling worksheets, and staying organized throughout the year. However, it is recommended that students maintain a separate individual 3-ring binder for handouts and worksheets, as well as having loose-leaf notebook paper and a pencil each day for class. Each student will need a four-function calculator to be used when graphing calculators are not allowed. It is recommended that a student has their own graphing calculator for all math classes from this point forward.

Homework Policy

Students will be expected to complete homework every night that it is assigned. Homework will help students practice skills learned in class and prepare for quizzes and tests. However, it is not possible to work an example of every possible situation for all skills; therefore, students should be able to apply concepts learned through homework to multiple situations and demonstrate mastery of the skills on given assessments.

Homework problems must show all work...**NO WORK = NO CREDIT!**

Homework will be collected and recorded for a grade based on completion. **Homework assignments must include a coversheet (when turned in face-to-face), be in order, and stapled before turning them in for a grade on the day of each major quiz and unit test.** There will be a 15-point penalty for the first day a homework assignment is late and a 10-point penalty for each day after that!

→ *Note: All homework submission made online must be organized in one file and the students name and class period must appear on all pages.*

Staying Connected

Students are already enrolled in the Honors Pre-Calculus Canvas course to access PowerPoint notes, homework sheets/answers, live teaching, and project rubrics. It is recommended that students download the Canvas Student app on their phone to have instant access to all important documents.

Additionally, and only after reading through this syllabus, students should access Assignment #1-3 via Canvas which will instruct them to send student & parent email for future contact, as well as to sign up for the Honors Pre-Calculus Remind account.