

AP Precalculus

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My welcome

Welcome to AP Pre-Calculus! It is my pleasure to be your instructor this year! This course will provide you with the tools to help you be successful in high school, college and after. Take this course seriously because it could be one of the most important courses you take throughout your academic career. One of my goals is to help you feel confident as you embark upon the rest of your studies.

Course description

AP Precalculus fosters the development of a deep conceptual understanding of functions. Students learn that a function is a mathematical relation that maps a set of input values—the domain—to a set of output values—the range—such that each input value is uniquely mapped to an output value. Students understand functions and their graphs as embodying dynamic covariation of quantities, a key idea in preparing for calculus. With each function type, students develop and validate function models based on the characteristics of a bivariate data set, characteristics of covarying quantities and their relative rates of change, or a set of characteristics such as zeros, asymptotes, and extrema. These models are used to interpolate, extrapolate, and interpret information with different degrees of accuracy for a given context or data set. Additionally, students also learn that every model is subject to assumptions and limitations related to the context. As a result of examining functions from many perspectives, students develop a conceptual understanding not only of specific function types but also of functions in general. This type of understanding helps students to engage with both familiar and novel contexts.

Course Topics

- Unit 1: Polynomial and Rational Functions
- Unit 2: Exponential and Logarithmic Functions
- Unit 3: Trigonometric and Polar Functions
- Unit 4: Parametric Functions, Vectors & Matrices. (not on AP Exam)

Expectations

1. Follow your grades on Power school.
2. No Cell phones.
3. No Ear plugs during lecture time.
4. Do your assignments EVERY day.
5. Be Ready when bell rings for class.
6. Take Notes and be involved in your learning.

Required Materials

1. Graphing Calculator TI-84 or TI-83
2. Notebook paper and Graph paper
3. Colored Pencils or Pens

Grading Scale

- A 100-90
- B 89-80
- C 79-70

F 69 and below

Homework 15%.

Classwork 20%

Quizzes 15%

Unit Tests 40%

Final Exam 10%

AP Classroom assignment bonus 7%

Assignment Policy

1. Tests will be given every three weeks. When absent on a test day, the test must be made up ASAP.
2. Quizzes may be given 1-2 times per week. When absent on a quiz day, the quiz must be made up ASAP!
3. Classwork may be assigned daily and must be completed before leaving or it will go down as a zero.
4. Homework will be assigned daily, and it will be due next Sunday to receive full credit.

Absences: Makeup Work

1. All makeup work must be completed and turned in within three school days.
2. It is your responsibility to obtain any missing assignments from me.

Tutorial Schedule

1. Every morning from 6:55 to 7:50.
2. Wednesday after school from 3:30 to 4:30.

Electronics Policy

NO Cell phones or Ear plugs of any kind.