

Advanced Placement (AP) Pre-Calculus Syllabus
2024-25

Instructor: Mrs. Thompson

Room: Price Hall 108 A

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Course Overview: 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.

Throughout this course, students develop and hone symbolic manipulation skills, including solving equations and manipulating expressions, for the many function types throughout the course. Students also learn that functions and their compositions, inverses, and transformations are understood through graphical, numerical, analytical, and verbal representations, which reveal different attributes of the functions and are useful for solving problems in mathematical and applied contexts. In turn, the skills learned in this course are widely applicable to situations that involve quantitative reasoning.

Course Expectations: Students are expected to complete all homework problems to the best of their ability. If they need additional support, they can refer to the additional resources listed below.

The Personal Progress Checks (PPC) that are assigned online for this course through the student's College Board account are to be completed on time; exceptions will not be made.

Students will take quizzes. These quizzes are short and are intended to check for understanding of concepts and skills that were recently taught. Students are required to make all corrections when the quizzes are returned to them.

Technology Requirement: Students should have a TI-84 graphing calculator. There is a classroom set that must remain in the room. Some problems throughout the course will require them to use their graphing calculators.

Additional Resources:

- Students have access to a classroom set of the Precalculus Textbook: Precalculus Graphical, Numerical, Algebraic 11th Edition *Demana*.
- Students can watch videos posted on Canvas corresponding to the lesson covered in class. The guided notes I provide will be used in lieu of a textbook and correspond with the videos posted on Canvas.
- Students can log in to their College Board Account to watch Daily Videos and complete Student Practice questions that come with video explanations
- Students have the option of coming to me for help before school, during lunch or on Wednesday evenings after school (4:30 – 5:30 pm).

Course Topics:

*Unit 1 Polynomial & Rational Functions

*Unit 2 Exponential & Logarithmic Functions

*Unit 3 Trigonometric & Polar Functions

*Unit 4 Parametric Functions, Vectors, & Matrices - **Unit 4 will NOT be on AP Exam**

Grading Scale:

A 100-90

B 89-80

C 79-70

D 69-60

F 59 and below

Grading Policy:

50% - Major Assessments (Unit tests)

30% - Minor Assessments (Quizzes)

10% - Homework

10% - Classwork

Classroom Expectations:

- Be on time – a student is late if not in the classroom at the beginning of the block/period.
- Bathroom breaks – All students will be allowed to leave to go to the restroom at the student's discretion with the understanding that s/he goes directly to the closest bathroom and comes back as soon as possible. Not following these expectations may result in bathroom break privileges being taken away.
- Be respectful – Honor anyone and everyone in the room. If anyone is addressing the class, everyone should be silent and directly paying attention to the speaker.
- Be prepared – always have your notebook and digital device ready (charged Chromebook) every class period.
- Food, drinks and water –Small snacks will be allowed unless trash or crumbs become a problem. Drinks will be allowed unless they become a problem. Water will always be allowed.

Assignment Policy:

- Tests will be given at the end of each unit and sometimes halfway through the unit if it is a long unit. When absent on a test day, the test must be made up ASAP.
- Quizzes may be given once per week. When absent on a quiz day, the quiz must be made up ASAP!
- Classwork may be assigned daily and must be completed before leaving.
- Homework must always be completed and turned in by the due date. Late assignments will not receive full credit.
- Progress checks will be assigned in AP Classroom throughout each unit.

Test Retakes:

Students who fail a major test/assessment (below 70%) will be allowed to do test corrections up to a 70% grade. This does not include semester examinations. Students are expected to meet for tutoring with the teacher to retake or correct a major test/assessment.

Required Materials

- Traditional classroom materials: Binder or Folder to keep Guided Notes, Notebook-paper, writing utensil, highlighter, 3x5 notecards, etc.
- School Issued Chromebook, laptop, or other district provided technology every class.

Tutorial Schedule:

- Wednesdays 4:30 – 5:30 pm
- During lunch.

REMIND.COM TO:

81010 MESSAGE: @apprecalch

AP EXAM DATE: TUESDAY, MAY 13, 2025, at 8:00 AM

Sign up for AP Precalculus Classroom using the following code at myap.collegeboard.org – TBA

**Confirmation of Receipt and
Understanding of Syllabus Student Expectations.**

Please return with all signatures and information by Monday, August 12th

Please sign and return this form to the instructor. Signatures will serve as acknowledgement that both students and parents have read and understand the course syllabus.

I, the undersigned, have received and read the course syllabus for AP Precalculus

Parent Name, Email, Phone and Signature

_____ **Date** _____

Parent Name, Email, Phone and Signature

_____ **Date** _____

Student Signature _____

Student Email: _____