



# Precalculus Course Syllabus

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## COURSE OVERVIEW

Precalculus is a fourth-year math option for students who have completed Advanced Algebra (or the equivalent). The course provides students with the opportunity to develop a deeper understanding of concepts in Algebra that are critical to the study of Calculus as well as an understanding of trigonometry and its applications.

### Fall Semester

Unit 0: Investigating Linear Algebra & Matrices ('23-'24 only)	(2 - 3 wks)
Unit 1: Modeling w/ Rational & Piecewise Functions	(4 - 5 wks)
Unit 2: Modeling w/ Trigonometric Expressions & Functions	(5 - 6 wks)
Unit 3: Applying Trigonometric Identities & Equations	(4 - 5 wks)

### Spring Semester

Unit 4: Modeling w/ Conic Sections & Polar Equations	(4 - 5 wks)
Unit 5: Modeling w/ Vector Quantities	(4 - 5 wks)
Unit 6: Modeling w/ Sequences & Series	(4 - 5 wks)
Unit 7: Culminating Capstone Unit	(1 - 2 wks)

## ASSIGNMENTS & GRADING

Student grades will be determined according to the following breakdown:

### Assignments (30%)

Warm Ups, Daily Work, and Homework

### Assessments (70%)

Quizzes, Projects, and Unit Tests

Students are expected to **neatly show all work with solutions clearly indicated** on all math problems. Partial credit will be given to incorrect solutions with work containing only minor errors. If the student does not show any work, if the student's work is not legible, or if the student's work does not actually support the indicated solution then no credit will be given.

### Late Work & Absences

All assignments will be posted to Google Classroom with clear due dates. Work that is turned in late will receive the following penalties:

#### Less Than 1 Week Late

70% Credit Maximum

#### More Than 1 Week Late

0% Credit - Not accepted

Students who are absent are still responsible for all missed instruction and assignments regardless of the nature of the absence. Those students with a valid school excuse (see Student Handbook) will not be penalized for as many days as they were excused, up to one additional week. It is the student's responsibility to make timely arrangements to make up any missed assessments.

### Credit Redemption

If a student scores below 70% on an assessment, they may be eligible for a credit redemption opportunity. Redemption opportunities must be scheduled outside of normal class time and will receive a maximum score of 70%.

### Academic Dishonesty

Cheating on any assignment or assessment is strictly prohibited. A student's first offense will result in a grade of 0% being assigned without recourse and the student's parents will be contacted. In addition to these consequences, all subsequent offenses will also result in administrative referrals.

## COURSE MATERIALS

Students will need a 3-ring binder with loose-leaf notebook paper **and** graph paper, pencils and eraser, and a chromebook/laptop. Students are also encouraged to have their own straightedge (ruler / protractor) and graphing calculator.

### ***Chromebooks / Laptops***

Central High School provides students with a chromebook so they can access their courses' digital materials and assignments. Students must bring this chromebook to class each day, already charged, in order to participate in any digital class activities. Students will not be permitted to charge their chromebooks during class in order to participate, and will receive a grade of 0% for any assignment or assessment missed for this reason. This applies to all personal devices used as alternatives to school furnished chromebooks as well. If keeping the device charged throughout the day is problematic, consider purchasing a portable laptop charger / power bank.

### ***A Note About Calculators***

In preparation for standardized tests and future math coursework, some class activities will prohibit the use of calculators. Students should expect to avoid using calculators unless necessary.

I have a class supply of graphing calculators that students may borrow during class. If students feel the need to have their own handheld calculator, I recommend the Texas Instruments TI-84 Plus (the same model I supply in class). Other handheld calculators will need to be approved on a case by case basis.

## TUTORING SESSIONS

If a student needs additional instructional support outside of class they may request to attend a tutoring session with me before or after school. Students must request the tutoring session at least a day in advance to check for availability and to receive a hall pass. Students must come prepared with their own specific questions that need to be addressed. Tutoring is not intended to be a substitute for in-class participation, and requests from students who do not actively participate in class will be denied.

## BEHAVIOR POLICIES AND PROCEDURES

Students will be expected to...

... **FOLLOW THE RULES** laid out in the Student Handbook.

- ★ Be in your seat and quietly ready to begin class as soon as the tardy bell rings.
- ★ Have all personal electronic devices completely turned off and stowed away at all times.

... **RESPECT** the teacher and their fellow classmates.

- ★ Remain in your assigned seat unless you have permission to get up.
- ★ Do not speak out of turn or otherwise be disruptive in class.

... **ACTIVELY PARTICIPATE** in all class activities.

- ★ Refrain from eating, drinking, grooming, or sleeping during class.
- ★ Remain seated and working on assignments until the release bell rings.

Unless otherwise specified in the Student Handbook, failure to meet these expectations will be subject to the following behavior plan:

**1<sup>st</sup> Offense**  
Verbal Warning

**2<sup>nd</sup> Offense**  
Parent Contact

**3<sup>rd</sup>+ Offense**  
Administrative Referral

### ***ACKNOWLEDGEMENT***

I hereby certify that I have read and understood the contents of this syllabus.

Student Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Parent Signature: \_\_\_\_\_

Date: \_\_\_\_\_