



Chandler Unified School District

MAT405 Honors Precalculus

SY 2024-25



Course Overview

Course Description

The rigorous pre-AP/IB course is equivalent to college algebra and trigonometry at the university using algebraic manipulation, graphing, and application. This course provides a more rigorous approach to the topics covered in Precalculus as preparation for AP or IB programs. Students will investigate functions, mathematical modeling, exponential and logarithmic equations, discrete mathematics, and trigonometry. Students will use the standards for mathematical practice to engage with the subject matter.

AP/IB/Dual Enrollment

May be offered for Dual Credit.

Prerequisite/Fee(s)

Algebra 2

Course Materials

Graphing Calculator – TI84 preferred

Pencil

Paper

Folder or Binder

School Issued Laptop

Adopted Resource(s)

Precalculus with Limits 3rd Ed, Larson (Cengage) & Precalculus 5th Ed, Blitzer (Pearson)

**An asterisk indicates a resource containing sexually explicit materials per legislative definitions. CUSD has determined that all the above resources are of exceptional educational value.*

Site and Faculty Information

School name and address:

Perry High School, 1919 E Queen Creek Rd, Gilbert, AZ 85297

Building principal:

Heather Patterson

patterson.heather@cusd80.com

Teacher:

Mrs. Heidi Trollope MEd, MS

trollope.heidi@cusd80.com

Office hours: Tutoring times and days will vary by week. The schedule will be posted in the classroom at the start of every week.

Course Access

This course is taught in-person at Perry High School. Students will have access to the curriculum and instruction in the classroom. Google Classroom is the primary location for students to access material when absent from classes taught in person.

Help

Academic Support

- Contact the teacher to schedule an appointment during office hours
- [Ed Tech](#) support for students, parents/guardians, and community link (cusd80.com/Page/45109)

Mental Health Support

- CUSD mental health support cusd80.com/Domain/10528 or 480-573-8808 (talk or text)
- Suicide & Crisis Lifeline: 9-8-8 hotline
- 24-hour Crisis Line Talk: 602-222-9444, Text: 741-741

Student Conduct, Success, and Responsibilities

Student Handbook

Students must follow the policies and procedures in the [Student Handbook](#). Copies of the handbook can be found at <https://www.cusd80.com/Page/533>, and printed copies will be provided upon request.

Student Responsibilities

- Students will be expected to place cell phones out of reach daily and may only use them when given permission.
- Phones, earphones, and smart watches will need to be out of reach during all assessments.

Attendance and being to class on time is important!

- Work missed due to an unexcused absence cannot be made up for credit, this includes tests and quizzes.
- Some class periods may begin with a short formative assessment or other graded classwork. Tardiness may cause students to miss important instruction and possibly result in loss of credit.
- Missing work due to excused absences is due within the same number of days the student was absent. A student who was absent for two days will be given two days to make up the work. This includes tests and quizzes. Students should verify due dates with the teacher if unsure.

Students will be expected to actively participate in class. Participation includes working within small groups, explaining your thinking, asking questions, clarifying your understanding, taking notes, and completing classwork and homework consistently.

There is no place and no time for immature behavior in the classroom. Students who deprive others of the right to learn will not be tolerated in our classroom.

Late work

Late work is not accepted for credit.

Assessments and Assignments

Students will complete assessments during each unit of study to assess their understanding. At the end of the first and second semesters, students will complete the CUSD Common Final. The Common Final will count for 20% of the student's final semester grade in grades 9-12 and 10% in grades 7-8 (some

exceptions may apply at the Junior High level). Common finals will be in ELA, Math, Science, Social Science, and World Language.

Final exams will be given during the CUSD Jr High/High School Early Dismissal days in December and May, as identified on the [District Calendar](#).

If students are requested to participate in a survey, the survey questions will be provided to parents/guardians seven days before student contact.

Grading

Grade Percentage

A	90% - 100%
B	80% - 89%
C	70% - 79%
D	60% - 69%
F	<60%

Quarter grades

Quarter grades will be the current semester cumulative grade. To see first and third quarter grades, you will need to look under quarter 2 or quarter 4, semester cumulative.

Grades are based on points accumulated in two categories:

1. Classwork/Homework: accounts for 15% of the grade.
2. Assessments: Tests and quizzes will account for 85% of the grade.

Semester grades

Semester grades are calculated using 80/20: A combination of the two quarters accounts for 80% of the semester grade and the final exam accounts for remaining 20%.

Units of study

Units for MAT405 Honors Precalculus

**An asterisk will indicate a unit of study or novel containing sexually explicit materials per legislative definitions.*

- Unit 1: Functions & Graphs
- Unit 2: Polynomial Functions, Rational Functions
- Unit 3: Exponential & Logarithmic Functions
- Unit 4: Conics
- Unit 5: Trigonometric Functions & Graphs
- Unit 6: Trigonometric Identities
- Unit 7: Polar Coordinates & Graphs
- Unit 8: Parametrics
- Unit 9: Vectors
- Unit 10: Sequences & Series
- Unit 11: Limits and continuity
- Unit 12: Derivatives
- Unit 13: Applications of derivatives
- Unit 14: Integrals

Signature Page - Please return this page to your student's teacher.



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Teacher: Mrs. Heidi Trollope, trollope.heidi@cusd80.com

Parent/Guardian

Acknowledgment

Parents/Guardians must specify their approval by selecting "Acknowledge" or "Potential Conflict" for their student's involvement in the units of study. Please note students cannot decline participation in standards-based units. The teacher will reach out regarding options if "Potential Conflict" is selected.

Unit of study	Acknowledge	Potential Conflict
- Unit 1: Functions & Graphs	<input type="checkbox"/>	<input type="checkbox"/>
- Unit 2: Polynomial Functions, Rational Functions	<input type="checkbox"/>	<input type="checkbox"/>
- Unit 3: Exponential & Logarithmic Functions	<input type="checkbox"/>	<input type="checkbox"/>
- Unit 4: Conics	<input type="checkbox"/>	<input type="checkbox"/>
- Unit 5: Trigonometric Functions & Graphs	<input type="checkbox"/>	<input type="checkbox"/>
- Unit 6: Trigonometric Identities	<input type="checkbox"/>	<input type="checkbox"/>
- Unit 7: Polar Coordinates & Graphs	<input type="checkbox"/>	<input type="checkbox"/>
- Unit 8: Parametrics	<input type="checkbox"/>	<input type="checkbox"/>
- Unit 9: Vectors	<input type="checkbox"/>	<input type="checkbox"/>
- Unit 10: Sequences & Series	<input type="checkbox"/>	<input type="checkbox"/>
- Unit 11: Limits and continuity	<input type="checkbox"/>	<input type="checkbox"/>
- Unit 12: Derivatives	<input type="checkbox"/>	<input type="checkbox"/>
- Unit 13: Applications of derivatives	<input type="checkbox"/>	<input type="checkbox"/>
- Unit 14: Integrals	<input type="checkbox"/>	<input type="checkbox"/>

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By signing and returning this form, the parent/guardian acknowledges they have reviewed the resources and units of the study included in the syllabus.

- As the parent/guardian, I understand I may contact the teacher with questions on resources, content, or units of study at any time during the school year and view my student's grades in Infinite Campus.

Student name (printed)

Student signature

Parent/Guardian name (printed)

Parent Signature

Date

Please return this page to your student's teacher.