



Chandler Unified School District

MAT445A AP Calculus BC

SY 2023-24



Course Overview

Course Description

This course is equivalent to a year long calculus class at a university. It prepares students to sit for AP examinations to earn a semester of college credit in calculus may. Students will investigate integration methods, conic sections, hyperbolic functions, and polar coordinates. Students will use the standards for mathematical practice to engage with the subject matter. The rigorous course prepares students for the AP examination in this subject area.

AP/IB/Dual Enrollment

AP / May be offered for Dual Credit.

Prerequisite/Fee(s)

Calculus AB or Honors Precalculus or Brief Calculus.

Course Materials

TI 83 or 84 graphing calculator
Notebook or Loose Leaf Paper- College Ruled
Graph Paper
Pencils
Erasers
Binder or Folder

**Technology: With the 1:1 technology initiative, it is the responsibility of the student to bring their fully charged laptop to school every day. Technology is a tool no different than a pencil. Like all school supplies, students are expected to have the supplies needed to learn.

Adopted Resource(s)

Calculus Early Transcendental Function 6th Ed., Larson & Edwards (Cengage) & Calculus of a Single Variable Early Transcendental Functions 6th Ed., Larson & Edwards (Cengage)

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

Site and Faculty Information

School name and address:

Camille Casteel High School, 24901 S Power Rd, Queen Creek, AZ 85142

Building principal:

Jayson Phillips
phillips.jayson@cusd80.com

Teacher:

Abigail Thornton BA
thornton.abigail@cusd80.com

Office hours: M, W, F 7:00-7:30am, M-W 2:30-3:00pm or by appointment

Course Access

This course is taught in-person at Camille Casteel 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 established in the Student Handbook. Copies of the handbook can be found at cusd80.com/handbooks. Printed copies will be provided upon request.

Student Responsibilities

In this college-level course, students will be expected to:

Be prepared with course materials each day.

Be in their seat when the bell rings.

Be respectful and active participants during class notes and activities.

Show all work on homework, classwork, quizzes, and tests.

Complete daily homework assignments.

Make use of answer keys for homework and review materials.

Ask questions in class and/or attend tutoring for additional help.

Check Google Classroom for notes and materials when absent.

Discipline Protocol:

It is the expectation that students hold themselves to high standards. The teacher will address students who are not meeting these expectations. Typical classroom behaviors consequences these are the standard progression for discipline

- a warning
- a warning with a phone call
- a Parent-teacher conference
- a referral.

Our goal is to work with families to ensure that all students have a safe and focused learning environment.

Tardy Protocol:

Students are expected to be in their seats when the bell rings and ready to learn. If a student is tardy to class teachers will follow this progress to rectify students being late to class.

- a warning on their first and second offense.
- the teacher will email / call home.
- notify Attendance Interventionist and email / call home.

On the fifth offense, the teacher will refer the student to our Attendance Interventionist, who can work with families and assign Saturday school if necessary.

The teacher has the option to provide their own lunch detention at their discretion instead of writing a conduct referral.

Absences:

Students who have excused absences have at least one day every day they are absent to make up the work they missed. Excessive absences can result in the loss of a credit for the course.

Food and Drink:

There is no food or drink allowed in the classroom except water.

Late work

Late work will be accepted with a 50% deduction up until the day of the unit test. No work from a unit will be accepted for credit if turned in after the unit test.

Assessments and Assignments

Students will complete assessments during each unit of study to assess their understanding. Students will complete the CUSD Common Final at the end of the first and second semesters. 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	B	C	D	F
90% - 100%	80% - 89%	70% - 79%	60% - 69%	<60%

Quarter grades

All homework and in-class assignments will make up 10% of the quarter grade. If students do not complete assignments, assessments will be difficult to pass. This is a college level course and managing homework is the responsibility of the student.

Tests will be worth 65% of the quarter grade. Quizzes will be worth 25% of the quarter grade. There will be no test retakes or quiz corrections.

***Finals are not given early. Absent students will receive a zero until they can take the final.

Semester grades

Semester grades are calculated using 40/40/20: Each quarter accounts for 40% of the semester grade and the final exam accounts for the remaining 20%.

Units of study

Units for MAT445A AP Calculus BC

Limits
Derivatives
Applications of Differentiation
Integration
Applications of Integration
Differential Equations
Parametric Equations, Polar Coordinates, and Vector-Valued Functions
Infinite Sequences and Series

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Parent/Guardian

Acknowledgment

Parents/Guardians should indicate if they "Acknowledge" or have a "Potential Conflict" with their student's participation in the following units by checking the appropriate box for each unit of study listed. Students cannot opt out of a standards-based unit. Marking "Potential Conflict" will prompt the teacher to make contact regarding assignment alternatives.

Unit of study	Acknowledge	Potential Conflict
Limits	<input type="checkbox"/>	<input type="checkbox"/>
Derivatives	<input type="checkbox"/>	<input type="checkbox"/>
Applications of Differentiation	<input type="checkbox"/>	<input type="checkbox"/>
Integration	<input type="checkbox"/>	<input type="checkbox"/>
Applications of Integration	<input type="checkbox"/>	<input type="checkbox"/>
Differential Equations	<input type="checkbox"/>	<input type="checkbox"/>
Parametric Equations, Polar Coordinates, and Vector-Valued Functions	<input type="checkbox"/>	<input type="checkbox"/>
Infinite Sequences and Series	<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 that I may contact the teacher if I have questions about the resources, content, or units of study.
- As the parent/guardian, I understand I can check my student's grades in Infinite Campus anytime during the school year.

Student name (printed)

Student signature

Parent/Guardian name (printed)

Parent Signature

Date

Please return this page to your student's teacher.