Course Syllabus

Chandler Unified School District

MAT435 AP Calculus AB

SY 2024-25

Course Overview

Course Description

The rigorous mathematics course is equivalent to a first-semester calculus class at a university. Topics emphasized are differential and integral calculus. This course prepares students for AP examinations to earn a semester of college credit in calculus. 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)

Precalculus or Honors Precalculus

Course Materials

Students will need a graphing calculator, pencils or pens, and a notebook or folder. TI-84 is the preferred calculator.

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 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:

Arizona College Prep High School, 4477 S Gilbert Rd, Chandler, AZ 85249

Building principal:

Robert Bickes
bickes.robert@cusd80.com

Teacher:

Stephanie Carrasco BA, MEd
carrasco.stephanie@cusd80.com
Office hours: Office hours will vary and will be posted in the classroom

Course Access

This course is taught in-person at Arizona College Prep 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](cusd80.com/Page/45109) 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
We will adhere to the PREP Way:
· First 15 Minutes is Crucial (no passes the first 15 minutes of class)
· No Cell Phone Breaks (no cell phones when going to the restroom)
· No Pass, No Go (must have a pass to leave your class)
· Be on Time (enter class prior to the last bell, avoid excessive loitering)
· Dress for Success (follow the dress attire guidelines)
Use of cell phones is not allowed in class unless approved by the instructor for the purposes of academic instruction.
The cheating policy as outlined in the handbook will be strictly enforced.

Late work
No late work will be accepted. If you are tardy, you will receive a late stamp on your homework. You are expected to make up any work missed because of an excused absence including any class work. It is your responsibility to find out what work was done while you were absent, check the whiteboard, website or contact me. You will be given one day for every excused absence. If you miss a review day, you will still be responsible to take the quiz or test on the assigned day. If you miss a quiz or test day, it is your responsibility to set up an appointment with me to make it up after school.
UNEXCUSED ABSENCES WILL RESULT IN A ZERO FOR THAT DAY'S ASSIGNMENT.

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

The grades for this class are cumulative throughout the semester.

Homework is 15%

    Graded on completion.

    You're responsible for attempting ALL problems to get full credit.

    Will be turned in weekly.

    Weekly homework quizzes.

Assessments/Projects are 85%

    Students are given the opportunity to earn up to10 points back on their assessment grade (up to 100%) by completing three similar problems to each question that was missed on their test. An example of this will be shared prior to our first assessment

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 MAT435 AP Calculus AB

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

Limits and Continuity

Differentiation: Definition and Basic Derivative Rules

Differentiation: Composite, Implicit and Inverse Functions

Contextual Application of Differentiation Analytical

Applications of Differentiation

Integration and Accumulation of Change

Differential Equations

Applications of Integration

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Building Principal: Robert Bickes, bickes.robert@cusd80.com
Teacher: Stephanie Carrasco, carrasco.stephanie@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
Limits and Continuity	☐	☐
Differentiation: Definition and Basic Derivative Rules	☐	☐
Differentiation: Composite, Implicit and Inverse Functions	☐	☐
Contextual Application of Differentiation Analytical	☐	☐
Applications of Differentiation	☐	☐
Integration and Accumulation of Change	☐	☐
Differential Equations	☐	☐
Applications of Integration	☐	☐

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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.