

## Course Syllabus



# Chandler Unified School District



MAT445 AP Calculus BC  
SY 2024-25

## 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 two semesters of college credit in calculus. Students will explore differential and integral calculus concepts, methods, and applications, including limits, parametric, polar, and series. Students will learn to include determining expressions and values using mathematical procedures and rules, connection representations, justifying reasoning and solutions, and using correct notation, language, and mathematical conventions to communicate results or solutions.

### 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-84 Graphing Calculator, Spiral or Composition Notebook for Math

### 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:

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

### Building principal:

Heather Patterson  
patterson.heather@cusd80.com

### Teacher:

Linda Moon BA, MEd  
moon.linda@cusd80.com

**Office hours:** Available Before and After School as Needed

## 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.

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## 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](https://www.cusd80.com/Page/45109))

### Mental Health Support

- CUSD mental health support [cusd80.com/Domain/10528](https://www.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 are expected to take notes and use the time available in class to complete homework assignments and ask questions.

### Late work

Late work is not accepted.

## 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

Grade Categories:  
Homework 10%

### **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 MAT445 AP Calculus BC**

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

Limits and Their Properties

Differentiation

Applications of Differentiation

Integration

Applications of Integration

Integration Techniques, L'Hopital's Rule and Improper Integrals

Differential Equations

Parametric Equations and Polar Coordinates

Infinite Series

AP Calculus BC Exam Review

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Signature Page - Please return this



page to your student's

teacher. **Chandler**

**Unified School**

**District**

MAT445 AP Calculus BC  
SY 2024-25

**Site:** Perry High School

**Building Principal:** Heather Patterson,  
patterson.heather@cusd80.com **Teacher:** Linda  
Moon, moon.linda@cusd80.com

**Parent/Guardian**

**Acknowledgment**

<<SiteLogo>>

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

Preparation for Calculus   Limits and Their Properties   Differentiation   Applications of Differentiation   Integration   Applications of Integration   Integration Techniques, L'Hopital's Rule and Improper Integrals   Differential Equations   Parametric Equations and Polar Coordinates   Infinite Series   AP Calculus BC Exam Review

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