



# Chandler Unified School District

MAT475A Multivariable Calculus and Differential Equations  
SY 2023-24



## Course Overview

### Course Description

Juniors and seniors completing AP Calculus BC can enroll. The curriculum covers Calculus 3 and differential equations (DEQ). There is no AP exam for this course. However, students can get four college credits for Multivariable Calculus (Calc 3) and three credits for DEQ through dual enrollment. Students will use the standards for mathematical practice to engage with the subject matter.

### AP/IB/Dual Enrollment

AP / May be offered for Dual Credit.

### Prerequisite/Fee(s)

Calculus BC

### Course Materials

Access to Microsoft Teams and OneNote, AP-approved graphing calculator (see approved list of graphing calculators on the class OneNote page), paper and pencil. Textbooks will be provided by the Hamilton High School.

### Adopted Resource(s)

Calculus Early Transcendental Function 6th Ed., Larson & Edwards (Cengage) & Fundamentals of Differential Equations 8th Ed., Nagle, Saff, & Snider (Pearson)

*\*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:

Hamilton High School, 3700 S Arizona Ave, Chandler, AZ 85248

### Building principal:

Michael Delatorre  
delatorre.michael@cusd80.com

### Teacher:

Mr. Chuck Weeks BS, MEd  
weeks.charles@cusd80.com

**Office hours:** Before and after school and by appointment. (Basically, if I'm here, I should be able to tutor.)

## Course Access

This course is taught in-person at Hamilton 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](https://cusd80.com/Page/45109) support for students, parents/guardians, and community link ([cusd80.com/Page/45109](https://cusd80.com/Page/45109))

### Mental Health Support

- CUSD mental health support [cusd80.com/Domain/10528](https://cusd80.com/Domain/10528) or 480-573-8808 (talk or text)

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- 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](http://cusd80.com/handbooks). Printed copies will be provided upon request.

### Student Responsibilities

Specific student responsibilities and expectations will be included in a syllabus addendum.

### Late work

In most cases, late work receives a 10% deduction in total points each day after the due date. See me for special circumstances.

## 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

The course final exam counts 20% while tests, quizzes, and homework count 80%. Of that 80%, unit tests and quizzes will count 85% while homework and participation will count 15%. Due to the advanced level of the course content (4th and 5th semester university mathematics), my grading policy deviates from the HHS Math Department 40/40/20 quarter split. Contact me with questions should you have any regarding this change.

### 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 MAT475A Multivariable Calculus and Differential Equations

Vectors and the geometry of space.

Vector-valued functions

Multivariable functions

Multiple integration

Vector analysis

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



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**Site:** Hamilton High School

**Building Principal:** Michael Delatorre, delatorre.michael@cusd80.com

**Teacher:** Mr. Chuck Weeks, weeks.charles@cusd80.com

## 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       |
|------------------------------------|--------------------------|--------------------------|
| Vectors and the geometry of space. | <input type="checkbox"/> | <input type="checkbox"/> |
| Vector-valued functions            | <input type="checkbox"/> | <input type="checkbox"/> |
| Multivariable functions            | <input type="checkbox"/> | <input type="checkbox"/> |
| Multiple integration               | <input type="checkbox"/> | <input type="checkbox"/> |
| Vector analysis                    | <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)

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Student signature

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Parent/Guardian name (printed)

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Parent Signature

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Date

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***Please return this page to your student's teacher.***