



Chandler Unified School District

MAT485B Linear Algebra and Advanced Math Topics

SY 2023-24



Course Overview

Course Description

This college-level course includes the topics of introduction to matrices, theories of systems of linear equations, determinants, vector spaces, linear transformations, and eigenvalues. It emphasizes the development of computational skills and independent research. 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)

AP Calculus BC

Course Materials

- TI-84 Graphing Calculator
- Notebook used only for this course

Adopted Resource(s)

Elementary Linear Algebra 11th Edition, Anton & Rorres (Wiley)

**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:

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

Building principal:

Heather Patterson
patterson.heather@cusd80.com

Teacher:

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

Office hours: M-F 7:00-7:25 am; M-Th 2:15-3:00 pm

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

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- 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

- Attend class daily
- Take notes and participate in learning
- Do homework and ask questions when you do not understand material
- Complete makeup work when absent
- Bring notebook to class every day for notes and homework
- No cell phone use during class
- Cheating will result in a zero
- Students must sign out with teacher when using the restroom

Late work

- No late work will be accepted
- For excused absences, you will have as many days as you were absent to complete the work missed
- If absent on a review day, you will still take the test as planned
- If absent on a test day, you will complete the make-up test in class the day that you return

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

Quarter grades are based off of the cumulative work that has been done in that semester.

Homework 10%

Quizzes and Tests 90%

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 MAT485B Linear Algebra and Advanced Math Topics

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Problem Solving

Inner Products

Orthogonality

Application of Linear Algebra Techniques to Real World Scenarios

Advanced Math Topics



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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
Problem Solving	<input type="checkbox"/>	<input type="checkbox"/>
Inner Products	<input type="checkbox"/>	<input type="checkbox"/>
Orthogonality	<input type="checkbox"/>	<input type="checkbox"/>
Application of Linear Algebra Techniques to Real World Scenarios	<input type="checkbox"/>	<input type="checkbox"/>
Advanced Math Topics	<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.