

Cuyamaca College

Math 284 – Linear Algebra Section 0766 Fall 2020

Instructor: Dan Curtis

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Class Times: MW 2:00-3:15 pm

Office Hours: Monday 9:30 – 10:30 am
Tuesday 10:00 – 11:00 am
1:30 – 2:30 pm
Wednesday 9:30 – 10:30 am
Thursday 10:00 – 11:00 am

Class session and Office Hours Zoom Link: <https://cccconfer.zoom.us/my/daniel.curtis>

Prerequisites: A grade of C or better in Math 280 or the equivalent.

Text and Materials:

- **Math 284 Workbook** – Free pdf download
- A graphing calculator is required. The TI 84+, TI 89, Voyage 200 or TI-Inspire are highly recommended.

Course Description: The topics covered in this course include matrix algebra, Gaussian Elimination, systems of equations, determinants, Euclidean and general vector spaces, linear transformations, orthogonality and inner product spaces, bases of vector spaces, the change of basis theorem, eigenvalues and eigenvectors, the rank and nullity of matrices and linear transformations. This course is intended for the transfer student planning to major in mathematics, physics, engineering, computer science, operational research, economics or other sciences.

<u>Important Dates:</u>	Last day to add classes/Last day to drop and qualify for a refund and to drop without receiving a “W”	Sunday, August 30
	Last day to file a petition for credit/no credit	Friday, September 18
	Last day to drop with a ‘W’	Sunday, November 8
	Final Exam	Monday, December 14 2:00 pm – 4:00 pm

It is the student’s responsibility to take care of any administrative procedures involved in dropping should he/she stop attending class.

Class Meetings: Due to COVID-19, this class will be 100% remote learning. All class sessions will be conducted through Zoom conferencing software at the scheduled class days and times (Mondays and Wednesdays from 2:00 pm – 3:15 pm). Attendance and participation in the class meetings is required, just like if this were an on-campus class. In these uncertain times, however, there may be times where you may have to miss a class. For this reason, all class sessions will be recorded and posted in Canvas so you can see what you missed.

Grading: Your final grade will be based on the percentage of total points you earned, using the standard scale: A = 90% and above, B = 80-89.9%, C = 70-79.9%, D = 60-69.9%, F = below 60%.

Exams: There will be three exams (each worth 70-80 points) during the semester. Exam questions will be based on the homework, and I will review the material covered on the exam during class on the last class day before the exam. No makeup exams will be given, but if you contact me **before** the day of an exam, I may be able to make arrangements for an alternate time for you to take the exam. The final (worth 120 points) will be cumulative. All exams, including the final exam, will be during scheduled class time. Exams will be accessed through Canvas and then images of your completed work (using a scanner or camera) are to be uploaded into Canvas.

Homework: Homework assignments will be done on paper from the workbook. Images of your homework will be uploaded into Canvas. Overall, the homework is worth 60 points. Homework will be collected on exam days.

Projects: Throughout the semester, there will be projects due (each worth 20 points). The projects will consist of problems that are more interesting and involved than the typical homework and exam problems. Students are encouraged to work together on the projects, but each student is responsible for completing and submitting his/her own project.

Student Learning Outcomes

Upon successful completion of this course, students will be able to:

1. Use analytic, numerical, and graphical methods to solve linear algebra level problems
2. Solve multi-disciplinary application problems and interpret the results in context
3. Prove basic results in linear algebra using appropriate proof-writing techniques

STEM Achievement Center: To support your efforts to succeed in this class, it is highly recommended that you utilize the free tutoring services available. The hours are Monday & Thursday 9:00 am – 6:00 pm; Tuesday & Wednesday 9:00 am – 7:00 pm; Friday 10:00 am – 2:00 pm. To make an appointment, please either call 619-800-2407 or email cuyamacatutors@gmail.com with the course and time you would like to meet with a tutor. The college also offers additional online tutoring through NetTutor which can be accessed 24/7 through your Canvas course.

Attendance: Good attendance is a must for success in this class. College policy states that a student may be dropped from the course for excessive absences or tardies.

My Policy: Four absences during the first four weeks or six absences during the entire semester and you may be dropped – arriving significantly late or leaving significantly early counts as half an absence.

Disability Support Services: Academic accommodations are available for students with disabilities.

Please identify yourself to your instructor and to DSPS staff so that the appropriate accommodations can be ensured. DSPS is at A-300, LRC (660-4239)

Academic Honesty: Academic dishonesty of any type by a student provides grounds for disciplinary action by the instructor or college. If you cheat, there will be consequences: I may give you a zero on the assignment or a zero in the course, or other additional consequences, regardless of whether you were the giver or receiver of the cheating.

Misconduct: Disruptive or threatening behavior or any conduct that interferes with my ability to teach or another student's ability to learn will not be tolerated. Such actions could result in a warning, removal from the class or referral to the Dean for disciplinary action. Please turn off your cell phones during class.

Class Schedule

Week	Monday	Wednesday
Wk 1	Intro, Module 1	Module 1
Wk 2	Module 2	Module 2
Wk 3	Module 3	Module 3
Wk 4	Review	Exam #1
Wk 5	Module 4, 5	Module 5
Wk 6	Module 6	Module 6
Wk 7	Module 7	Module 7
Wk 8	Review	Exam #2
Wk 9	Module 8	Module 8, 9
Wk 10	Module 9, 10	Module 10
Wk 11	Module 11	Module 11
Wk 12	Module 12	Module 12
Wk 13	Module 13	Module 13, 14
Wk 14	Review	Exam #3
Wk 15	Module 14	Module 15
Wk 16	Module 16	Review for Final
Finals Week	Final Exam Monday, December 14 2:00-4:00 pm	