

MATH 21: LINEAR ALGEBRA

2022 Summer Session 2

Instructor: Amethyst Price **Time:** MWF 09:00AM-11:30AM (PT)
Email: amrprice@ucsc.edu **Place:** Zoom

Office Hours: M 12:00PM - 1:00PM (PT) and **by request** (Zoom link on Canvas)

TA: TBA **Sections:** TBA
Email: [tba](#) **Place:** Zoom

Office Hours: TBA (PST) (Zoom links on Canvas)

Course Description: Systems of linear equations matrices, determinants. Introduces abstract vector spaces, linear transformation, inner products, the geometry of Euclidean space, and eigenvalues. Students cannot receive credit for this course and AM 10. *Linear Algebra is the study of systems that change in proportion to their inputs. Most applied systems present a linear behavior, which makes Linear Algebra very important in physics, engineering, biology, chemistry, and computer science.*

Prerequisites: Prerequisite(s): MATH 11A or MATH 19A or MATH 20A or AMS 11A or AMS 15A. Prerequisites waived for non-UCSC students.

Course Outline: Lectures will be held and recorded via Zoom during the scheduled times.

Textbook: Elementary Linear Algebra: an eTextBook, by Bruce Cooperstein (Optional)

Course Policies:

- Attendance: not required, but highly recommended.
- Required materials: Canvas, Edfinity, Gradescope
- Course discussion forum: Ed Discussion - linked to Canvas, will be used for all questions/communication outside of class and office hours.
- Curve: None - see assignment drop list and grading scale.
- Participation: Improvements and effort throughout the course will be duly noted and may result in a grade bump.
- If your pet joins us during lecture - please introduce them to the class.

Assignments:

- Learning Tickets (completed during lecture or while watching lecture videos)
- Weekly Reflections
- Edfinity

Exams:

All exams will be take-home. You will be given 3 days to complete each. Each will consist of a computational section and a written section. Exams will be submitted via Gradescope. One Midterm One Final

Late Policy/Dropped Assignments:

- A 24-hour, no-questions-asked, late policy will be applied to all Canvas and Edfinity assignments. This does **not** apply to exams.
- The following assignments will be dropped at the end of the course: The lowest -
 - 8 Module Questions
 - 1 Reflection
 - 1 Edfinity Assignment

Zoom Policy:

- Please do not discuss personal matters (e.g. missing an assignment, rescheduling request, etc...) via the public Zoom chat. I am unable address concerns properly here. Please do the following instead:
 - come to office hours
 - send a private message via Ed Discussion, email me instead.
- During lectures you may ask a question via the "private chat" method to keep your question anonymous to your peers, however; I will read the question out-loud (without using your name) and answer the question to the whole class if it would be beneficial.
- I encourage you to turn your camera and your on to participate in class. This can also help your peers feel more comfortable doing the same!
- **Pet Policy:** If your pet joins you for class, please introduce them so we can say hello.

Sections: Sections are put in place to help you gain a better understanding of the material and receive help on concepts/homework in a smaller setting. Attendance is not required, but **highly recommended**.

Times: TBA

Small Group Tutoring: Small Group Tutoring provides a small interactive setting for students to engage in conversations about course material with other students. Each session is led by a current UCSC undergraduate student who has taken the course and done well in it. Tutoring sessions are 1-Hour long and generally have a capacity of 6 students. When students sign up for tutoring, students make a commitment to attend tutoring weekly for the entire quarter. All students can sign up for up to 2-Hours of tutoring a week per course they are enrolled in. More information on Canvas.

Grade Distribution:

Learning Tickets	15%
Weekly Reflections	10%
Edfinity Homework	20%
Participation	5%
Midterm	25%
Final	25%

Gradescope: You will use Gradescope to submit (a portion of) your "exams". Get familiar with this tool at https://www.gradescope.com/get_started. Check out the video titled "For students: Submit PDF homework" to review how to upload your image and PDF files to Gradescope.

Ed Discussion: We will use Ed Discussion for all outside communication in this course. If you have a question regarding homework, concepts, logistics, or anything the whole class might benefit from - post it on here. If you email me a question that I think falls under the above description - I will ask you to restate this question on Ed Discussion. Answering questions for your peers is **highly encouraged!** I will not respond to questions immediately, to give you all a chance to reply. I will also not respond to questions after 8 pm (PST). *Active participation in Ed Discussion including contributing to the learning of your peers will be considered towards your "participation" grade.*

Important Dates:

Add Deadline	07/28
Drop Deadline (tuition reversed)	08/01
Request "W" Deadline (no tuition reversed)	08/14
Change Grade Option Deadline	08/21
Grades Posted	09/01
Midterm	08/10-13
Final Exam	08/23-26

Important Summer Differences:

- There is no "Add by Petition" in summer. You must enroll by the deadline above.
- You will **not** be dropped for non-attendance or non-payment. You must drop yourself.
- Dropping before the deadline results in a full-tuition reversal/refund.
- Withdraw posts a W for the grade and full tuition is charged (no refund).
- You cannot withdraw from a course in your portal, you must fill out the DocuSign form on the summer website.

For all other deadlines, here is the summer academic calendar: <https://summer.ucsc.edu/studentlife/index.html>
For questions regarding summer info, email summer@ucsc.edu.

Slug Support Program: College can be a challenging time for students and during times of stress, it is not always easy to find the help you need. Slug Support can give help with everything from basic needs (housing, food, or financial insecurity) to getting the technology you need during remote instruction. To get started with SLUG Support, please contact the Dean of Students Office at 831-459-4446 or you may send us an email at deanofstudents@ucsc.edu.

Slug Help/Technology The ITS Support Center is your single point of contact for all issues, problems, or questions related to technology services and computing at UC Santa Cruz. To get technological help, simply email help@ucsc.edu

DRC: UC Santa Cruz is committed to creating an academic environment that supports its diverse student body. If you are a student who requires accommodations to achieve equal access in this course, please submit your Accommodation Authorization Letter from the Disability Resource Center (DRC) via email, preferably within the first two weeks of the quarter. I encourage all students who may benefit from learning more about DRC services to contact DRC by phone at 831-459-2089 or by email at drc@ucsc.edu.

Title IX: The Title IX Office is committed to fostering a campus climate in which members of our community are protected from all forms of sex discrimination, including sexual harassment, sexual violence, and gender-based harassment and discrimination. Title IX is a neutral office committed to safety, fairness, trauma-informed practices, and due process. The Title IX Office is working remotely and is conducting meetings and interviews via zoom and phone. If you want to make a report or request a consult, you can expect the fastest response by using their online reporting link. For questions about making a report, your reporting responsibilities, and/or questions about the UC Policy on Sexual Violence and Sexual Harassment (<https://policy.ucop.edu/doc/4000385/SVSH>) call 831-459-2462.

Academic Honesty: Academic integrity is taken extremely seriously. You CANNOT search or post any of the assignments (quizzes, exams, homework) on any websites (including Chegg!). You CANNOT collaborate during midterm, final, and quizzes. For homework, you are encouraged to discuss problems together but make sure to complete your homework on your own. If any of these rules are not followed, you will receive 0 from that assignment and may be reported for a violation of academic integrity. The details of the policy can be found at https://www.ue.ucsc.edu/academic_misconduct.