

# MAT 22A: Linear Algebra (2020 Summer Session I)

Instructor: Benjamin Godkin

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Office Hours: M 3-4 PM, T 2-3 PM, W 2:30-3:30 PM, R 4-5 PM, F 11AM-12PM  
or by appointment via Zoom

Website: Canvas

**Class meetings:** MWF 8:00 AM - 9:40 AM via Zoom (June 22, 2020 - July 31, 2020) Lectures will be recorded and available through Canvas. Attendance is not required, but quizzes may occur during the scheduled lecture time.

**Textbook:** *Introduction to Linear Algebra* by Gilbert Strang

**Course Outline:** We will follow the course schedule available on the department website( [https://www.math.ucdavis.edu/courses/syllabus\\_detail?cm\\_id=58](https://www.math.ucdavis.edu/courses/syllabus_detail?cm_id=58) ). Note that summer session will move significantly faster than the schedule on the department website. More detailed calendar below.

**Prerequisites:** ALL of the prerequisite requirements below:

- Any of the following: ENG 006, EME 005, ECH 060, MAT 022AL (may be taken concurrently)
- Any of the following: C- or better in MAT 016C, C- or better in MAT 017C, C- or better in MAT 021C, C- or better in MAT 021CH

OR by consent of instructor.

**Grading:** Homework 20%, Quizzes 15%, Midterm 30%, Final 35%

**Homework:** There will be 3 assignments due per week (except the first week and exam weeks). Assignments should be submitted on Gradescope. Homework will typically be due MWF by 8AM. The 3 lowest assignments will be dropped. Late homework will not be accepted.

**Quizzes:** There will be 2 quizzes per week (with exceptions for exam weeks). Typically on Monday and Wednesday. The 2 lowest scores will be dropped. Quizzes cannot be made up.

**Exams:** There will be one midterm and one final exam. These exams cannot be made up and are scheduled to take place during the class time. Please make sure you are available during the scheduled time as makeup exams will not be possible.

- Midterm: Monday July 13, 2020
- Final: Friday July 31, 2020

**Piazza:** You should have received an email about signing up for Piazza. Piazza is a great forum for asking questions. If you did not receive an email,

you can sign-up at [piazza.com/ucdavis/summer2020/mat22a](https://piazza.com/ucdavis/summer2020/mat22a) with access code:  
MAT22ASSI

### Class Policies:

- Make use of the Piazza forum for questions, but you may also email me any questions you have. Please email me at the above email address and not through canvas. I will try to reply within 24 hours or by Monday if you email over the weekend. If you do not get a reply, please follow-up, because I may have missed your email.
- You may work on homework with other students, but your write-up should be completed yourself and in your own words.
- Calculators will not be allowed on exams.
- All exams are closed book, notes, and other resources.
- Students are expected to adhere to the UCD Code of Academic Conduct (<http://sja.ucdavis.edu/cac.html> ). Any suspicions of cheating will be reported to OSSJA, and they will handle cases.
- If anything of concern comes up please contact me sooner rather than later.

### Other resources:

- The Academic Assistance & Tutoring Center provides tutoring services during the summer through Zoom. <https://tutoring.ucdavis.edu/math>
- The 3Blue1Brown YouTube channel has a great video series on linear algebra with lots of visualizations. [https://youtu.be/fNk\\_zzaMoSs](https://youtu.be/fNk_zzaMoSs)

### Course Schedule:

Lecture	Date	Sections (Strang 5th)
1	6/22/2020	1.1, 1.2
2	6/24/2020	1.3, 2.1
3	6/26/2020	2.2, 2.3, 2.4
4	6/29/2020	2.5, 2.6
5	7/1/2020	2.7
6	7/6/2020	3.1, 3.2
7	7/8/2020	3.3, 3.4
8	7/10/2020	3.5
9	7/13/2020	Midterm
10	7/15/2020	3.6
11	7/17/2020	4.1
12	7/20/2020	4.2, 4.3
13	7/22/2020	4.4
14	7/24/2020	5.1, 5.2
15	7/27/2020	6.1
16	7/29/2020	6.2, 6.4 (6.5)
17	7/31/2020	Final