

## SYLLABUS

**Instructor:** Dr. Kejian Shi  
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**Prerequisites:** Math 1D (with a grade of C or better), or equivalent  
**Textbook:** *Elementary LINEAR ALGEBRA*, 12<sup>th</sup> Ed, by Howard Anton

**Attendance:** This class is an **online class**. My daily lecture videos will be posted on the Canvas. Students are expected to follow the schedule to watch and study the videos. The videos can be watched multiple times. Questions will be answered through email. **(It is the students' responsibility to drop by the appropriate deadline. Petitions to drop after the deadline will not be considered by the instructor.)**

**Homework:** Homework is the key to success in this class. Plan to devote a minimum of **TWO hours** to homework for **each class lesson** (each lecture video).

**Quizzes:** **Three Quizzes** (33, 33, and 34 points) will be given from **8:00pm-9:00pm** on the quiz day (see schedule). No makeup quizzes. The lowest quiz score will be replaced by the average of the two highest quiz scores.

**Midterms:** **Two midterm examinations** (100 points each) will be given from **8:00pm-10:00pm** on the midterm exam day (see schedule). No makeup tests. The lowest midterm score will be replaced by the percentage of the final exam if the final percentage is higher.

**Final Exam:** **One comprehensive final examination** will be given from **8:00pm-11:00pm** on **Thursday, August 4, 2022**. Any student missing the final will receive an F grade for the course.

**Integrity:** Any types of cheating are not tolerated. Corresponding school rules will be followed.

Grading:	<u>Distribution</u>		<u>Scale</u>		
			Grade	Points	Percentage
Quizzes	100		A+	473-500	95%-100%
			A	448-472	90%-94%
			A-	438-447	88%-89%
			B+	423-437	85%-87%
			B	398-422	80%-84%
Midterms	200		B-	388-397	78%-79%
			C+	373-387	75%-77%
			C	323-372	65%-74%
			D+	298-322	60%-64%
			D	288-297	58%-59%
Final Exam	200		D-	273-287	55%-57%
			F	0-272	0%-54%
	Total	500			

## Tentative Schedule:

	MON	TUE	WED	THU	FRI	SAT	SUN
<b>June / July</b>	27 1.1, 1.2	28 1.3, 1.4	29 Last day to get refund 1.5, 1.6	30 1.7, 1.8 Quiz #1 8:00pm-9:00pm	1	2	3
<b>July</b>	4 Holiday (No class)	5 census day 2.1, 2.2, 2.3	6 3.1, 3.2, 3.3	7 3.4, 3.5 TEST #1 8:00pm-10:00pm	8	9	10
<b>July</b>	11 4.1, 4.2, 4.3	12 4.4, 4.5	13 4.6, 4.7	14 4.8, 4.9 Quiz #2 8:00pm-9:00pm	15	16	17
<b>July</b>	18 5.1, 5.2	19 5.3, 6.1	20 6.2, 6.3	21 6.4 TEST #2 8:00pm-10:00pm	22	23	24
<b>July</b>	25 7.1, 7.2	26 7.3, 7.4	27 Last day to drop with "W" 7.5	28 8.1 Quiz #3 8:00pm-9:00pm	29	30	31
<b>August</b>	1 8.2, 8.3	2 8.4, 8.5	3 Review	4 FINAL EXAM 8:00pm-11:00pm	5	6	7

## Homework problem list:

Sections	Problems
1.1	1, 4, 7, 10, ..., 25 (every third); True-False Exercise.
1.2	1, 6, 11, 16, ..., 41 (every fifth); True-False Exercise.
1.3	1, 6, 11, 16, ..., 36; True-False Exercise.
1.4	1, 6, 11, 16, ..., 56; True-False Exercise.
1.5	1, 4, 7, 10,... 31; True-False Exercise.
1.6	1, 4, 7, 10, ... 22; True-False Exercise.
1.7	1, 6, 11, 16, ... 46; True-False Exercise.
1.8	1, 6, 11, 16, ... 46; True-False Exercise.
2.1	1, 6, 11, 16, ... 41; True-False Exercise.
2.2	1, 4, 7, ..., 34; True-False Exercise.
2.3	1, 4, 7, ..., 34; True-False Exercise.
3.1	1, 4, 7, 10,... 31; True-False Exercise.
3.2	1, 4, 7, ..., 34; True-False Exercise.
3.3	1, 6, 11, 16, ..., 41; True-False Exercise.
3.4	1, 4, 7, 10, ..., 22; True-False Exercise.
3.5	1, 6, 11, 16, ..., 41; True-False Exercise.
4.1	1, 4, 7, 10,... 28; True-False Exercise.
4.2	1, 4, 7, 10,... 28; True-False Exercise.
4.3	1, 4, 7, 10,... 22; True-False Exercise.
4.4	1, 4, 7, 10,... 31; True-False Exercise.
4.5	1, 4, 7, 10,... 31; True-False Exercise.
4.6	1, 4, 7, 10,... 25; True-False Exercise.
4.7	1, 4, 7, 10,... 19; True-False Exercise.
4.8	1, 4, 7, 10,... 31; True-False Exercise.
4.9	1, 6, 11, 16, ..., 41; True-False Exercise.
5.1	1, 4, 7, 10,... 37; True-False Exercise.
5.2	1, 6, 11, 16, ..., 41; True-False Exercise.
5.3	1, 4, 7, 10,... 34; True-False Exercise.
6.1	1, 6, 11, 16, ... 46; True-False Exercise.
6.2	1, 6, 11, 16, ... 51; True-False Exercise.
6.3	1, 6, 11, 16, ... 51; True-False Exercise.
6.4	1, 4, 7, 10,... 31; True-False Exercise.
7.1	1, 4, 7, 10,... 28; True-False Exercise.
7.2	1, 4, 7, 10,... 28; True-False Exercise.
7.3	1, 4, 7, 10,... 37; True-False Exercise.
7.4	1, 4, 7, 10,... 22; True-False Exercise.
7.5	1, 6, 11, 16, ... 46; True-False Exercise.
8.1	1, 4, 7, 10,... 37; True-False Exercise.
8.2	1, 6, 11, 16, ... 46; True-False Exercise.
8.3	1, 4, 7, 10,... 25; True-False Exercise.
8.4	1, 4, 7, 10,... 22; True-False Exercise.
8.5	1, 4, 7, 10,... 31; True-False Exercise.



**Student Learning Outcome(s):**

\*Construct and evaluate linear systems/models to solve application problems.

\*Solve problems by deciding upon and applying appropriate algorithms/concepts from linear algebra.

\*Apply theoretical principles of linear algebra to define properties of linear transformations, matrices and vector spaces.

**Office Hours:**