Instructor: D. Xu (dashunxu@.siu.edu)   **MATHEMATICS 221 Spr 2024**

OFFICE: Neckers A 273   **PHONE**: 453-6598

OFFICE HOURS: MWF 8:50-9:55am, 10:50-11:50am, or appointment   **CALCULATOR:** None

Class meeting: 10-10:50am on MWF, Neckers 218

Tutoring sessions: M—Th. 5-9pm Lib 680

Book: *Elementary Linear Algebra*, by Howard Anton 11th ed.

Coverage: Chap1-6 (may not be whole chapters)

Exams: Two midterm exams and one final exam. Depending on our lecture pace, I will announce the midterm exam dates in class.

Grading Scale

90 ↑ A	80 ↑ B	70 ↑ C	60 ↑ D	59 ↓ F

Grades

Grading Information

Midterm exams	35
Homework	25
Final	32
Attendance (deduct 1 point per missed class meeting)	8

Important dates:

Semester Classes Begin	Tuesday, January 16
Last Day to Register	Sunday, January 21
Last Day to drop w/ Reg. Office	Friday, January 26
Last Day to Drop with Refund	Sunday, January 28
Spring Break	Sat, March 9-Sun, March 17
Last Day to Drop w/o Refund	Friday, March 29
Total Solar Eclipse (Classes Cancelled)	Monday, April 8
Final Examinations	Mon, May 6-Fri, May 10
Commencement	Saturday, May 11

Lecture notes: Available in D2L

Homework: All assignments will be collected every Friday in class and only a few questions in each assignment will be graded. Late homework will not be accepted. The followings are problems assigned last time. I will **update** these problems after each class meeting.

Date	Homework	
Week 1	Sect 1.1: 5, 7(c), , 8(c) Sect 1.2: 3(a, c,d), 5, 11, 15, 25, 27	
Week 2	Sect 1.3: 2(b, c), 3(e. f), 5(a, b, d, e), 23	
Week 3	Sect 1.3: 2(d, e), 3(j), 5(d, e, g, h, j), 12, 13(a),	

	15, 29(a,b) 1.4: 9, 12, 13, 15, 17, 20c, (using inverse 25, 27), TF(a-k)	
Week 4	1.5: 2, 3, 5(c), 6(b), 7(ac), 8(ac), 11, 13, 15, 16, 19, 20, TF(a-g) 1.6: 1, 3, 12(i), 1.6: 13, 15, 19, TF(a-g)	
Week 5	1.7: 3, 4, 15, 19—21, 35(b), TF(a-m) 2.1: 1, 21, 22, 23, 27, 30,	
Week 6	2.2: 6, 7, 11, 9, 11, 15, 17, 18, 19, 21, optional (23, 25,27, 29, 30) 2.3: 7, 15, 17, 19, TF (a-l)	
Week 7	2.3: 25, 33; 3.1: 1(a), 3, 11(a,c), 19 3.2: 1(a), 5(a), 9(a) Review Problems: 1.2: 11, 25, 27 1.4: TF(a—g) 1.6: TF(a—f) 1.7: TF(j—m) 2.1: 21, 22, 2.2: 15--22 2.3: 19, 21,	
Week 8	3.2: 19, 3.3: 1cd, 3, 7, 10, 13b, 19	
Week 9	4.1: 8, 9, TF a-e.	
Week 10	4.2: 7, 11, 12(a,c), 4.3: 1(a,b), 2, 3	
Week 11	4.4: 2, 11(a), 13(a), 19(a, b), TF(a-d) 4.5: 1, 3, 5, 15, 17, 4.6: 1(abc), 3(ab)	
Week 12	4.7: 3a, 7b, 9, 15, 17 4.8: 1, 6	

		Review: 4.2: 11, 12(ab)
Week 13	HW: 4.7; 11, 12 4.8: 1b, 3, 5, 6 5.1: 7, 12, 13,	4.3:2b, 3b 4.4: 13a, 19ab, 4.7: 9, 15, 16, 17
Week 14	HW due on Fri. 5.2: 3, 6, 8, 9, diagonalize 13, 17	
	Review for the final: Week 7 and 13 homework and two review sets for midterm exams, together with 1.5: 11, 13, 2.3: 33, 34 4.2: 2(a, b, d, e) 5.2: 9, 11 Thm in 4.8 Review Lecture notes for chap6. Practice: 6.1: 29, 30, TF(a-f) 6.2: 1, 15, 16, 27	

Suggestion: Take full advantage of our tutoring sessions.

Find at least one or two other students from the class with whom you can regularly do homework and prepare for exams. Your classmates are perhaps the least used and arguably your best resource. An efficient and effective study group will streamline homework and study time and greatly improve your written and spoken communication. The best time to use your classmates as study/homework partners is after you have made an **honest effort on your own** to solve the problems using your own wits, knowledge, and experience. When you encounter an unsolvable problem, don't give up too soon on it. Being stumped is an opportunity for mathematical growth and insight, even if you never solve the problem on your own. If you seek help prematurely, you will never know if you could have solved a tough problem without outside assistance.