Linear Algebra and Applications

(Mathematics 642:550:01 – Summer 1995)

Instructor: Alberto Corso, Hill 618 (Busch); E-mail corso@math.rutgers.edu; office hours on MTTh 5-6:15 pm or by appointment.

Textbook: *Linear Algebra and its Applications*, 3rd edition, by Gilbert Strang, ISBN # 0-15-551005-3, Saunders Publishing/Harcourt Brace Jovanovich.

Lectures: MTTh 6:15-8:45 pm, Hill 525 (Busch).

Grade: The final grade for the course will be based on a midterm, on a final exam and, in addition, on a set of homework assignments that will be handed in at the end of each chapter.

Outline:

Date:	**Lecture:**	**Sections:**	**Problems:**
6/26	#1	1.1	
		1.2	3, 8, 9, 10.
		1.3	1, 2, 8, 12, 13.
		1.4	2, 3, 6, 8, 10, 11, 14, 15, 19, 22, 24.
6/27	#2	1.5	9.
		1.6	1, 2, 6, 7.
		1.7	3, 4.
6/29	#3	2.1	2, 5, 6, 8.
		2.2	3, 4, 6, 7, 8, 12.
		2.3	1, 2, 3, 4, 6, 8, 10, 12.
7/3	#4	2.4	1, 2, 6, 8, 9, 11, 12, 14, 15, 17, 20.
		2.5	2, 3, 5, 6, 7, 10, 11, 12, 16.
		2.6	1, 2, 4, 8, 19, 21.
7/6	#5	3.1	1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 14, 16, 17, 18, 20, 21, 22.
		3.2	1, 2, 3, 4, 5, 8, 10, 12, 14.
7/10	#6	3.3	1, 3, 7, 12, 13, 24.
		3.4	1, 4, 5, 6, 13, 15, 22, 23, 25, 27.
7/11	#7	3.5	1, 2, 3, 4, 7, 8, 11, 13.
		3.6	1, 3, 6, 7, 8, 15, 17, 23, 24.
7/13	#8	4.1	
		4.2	1, 6, 7, 9, 10, 11, 13, 14(b), 17. Review for the exam.
7/17	#9		FIRST HOUR EXAM [2 hours, closed book] ON CHAPTERS 1-3.

Outline (cont.):	Date:	Lecture:	Sections:	Problems:
	7/18	#10	4.3	1, 3, 5, 6, 9, 13.
			4.4	3(b), 5, 6, 8, 12, 13-16.
			5.1	2, 4, 7, 8, 9, 12, 14, 15, 18.
	7/20	#11	5.2	1, 2, 3, 4, 5, 6, 7, 10, 11, 12.
			5.3	1, 2, 3, 5, 8, 12, 13, 16, 17, 20.
			5.4	1, 3, 4, 5, 7, 8, 13, 14, 17, 19, 20.
	7/24	#12	5.5	1, 2, 3, 4, 5, 6, 8, 10, 11, 12, 13, 14, 15, 17, 19, 20, 24.
			5.6	1, 2, 3, 4, 5, 7, 13, 15, 16, 17, 18, 23, 25, 26.
	7/25	#13	6.1	1, 2, 5, 7, 13.
			6.2	2, 3, 5, 7, 8, 15(a), 16, 17, 19.
			6.3	1, 3, 5, 7.
	7/27	#14	6.4	1, 3, 4, 7, 9.
			6.5	1, 3, 4.
			App. A	2, 4, 5, 6, 9, 10.
	7/31	#15	7.1	
			7.2	1, 2, 3, 5, 8, 10.
			7.4	1, 4, 5, 6, 7.
	8/1	#16		Catch up and review.
	8/3	#17		FINAL EXAM [3 hours, closed book] ON CHAPTERS 1-7.