

Math 511 Linear Algebra with Applications

Fall 2008

This is a Linear Algebra course primarily for graduate engineering students. Enclosed is a sample outline which is intended to serve as a guide.

Text: Linear Algebra and its Applications by Gilbert Strang 4th Edition

Lesson	Section	Homework Assignment
1	1.2,1.3	2.4; p15:3.2, 3.4
2	1.4	4.2, 4.4, 4.22
3	1.5	5.4, 5.16
4	1.6	6.6, 6.14
5	Review	
6	2.1	1.2, 1.4
7	2.2	2.4, 2.6
8	2.3	3.2, 3.8
9	2.3	3.14, 3.16
10	2.4	4.4, 4.8, 4.10
11	2.5	5.2, 5.4
	(Kirchhoff's Laws)	
12	2.6	6.2, 6.8, 6.10, 6.20
13	Review	
14	Exam 1	
15	3.1	1.2, 1.6, 1.12
16	3.2	2.4, 2.6, 2.12
17	3.3	3.4, 3.24
18	3.4	4.6, 4.10, 4.14
	(Euclidean space)	
19	3.4	4.22, 4.24
	(Function spaces)	
20	3.5	5.2, 5.6
21	3.5	5.8, 5.10, 5.12
22	3.6	6.2, 6.10, 6.12
23	4.1,4.2	2.2, 2.4, 2.6
24	4.3	3.2, 3.4, 3.8
25	4.4	4.4, 4.6
26	Review	
27	Exam 2	
28	5.1	1.4, 1.6, 1.10a)b), 1.12
29	5.2	2.2, 2.6
30	5.4	4.2, 4.6, 4.8
31	5.4	4.8, 4.10, 4.14
32	5.5	5.2, 5.6, 5.20
33	5.6	6.2, 6.14, 6.22
34	Appendix B	B.2, B.4
35	Review	
36	6.1	1.4, 1.6
37	6.2	2.2, 2.10
38	6.5	5.2, 5.4
39	Review	
40	Exam 3	
41	7.1,7.2	2.2, 2.6
42	7.3	3.2, 3.6
43	Appendix A	A.2
44	Review	

GRADES: Your semester grade is based on a total of 500 points distributed as follows. Homework and quizzes combined count 100 points. There will be two mid-term exams which count 100 points each, and final exam which counts 200 points.

HOMEWORK AND QUIZZES: Homework will be collected regularly. **Late homework will not be accepted. No make-up quizzes will be given.**

CALCULATORS: Calculators will not be allowed on exams or quizzes. It is important that you learn to do simple calculations by hand.

COURSE WEB PAGE: <http://www.math.purdue.edu/MA511>

ACADEMIC ADJUSTMENTS: Students who have been certified by the Office of the Dean of Students-Adaptive Programs as eligible for **academic adjustments** should go to MATH 242 with a copy of their certification letter and request an *Information Sheet* for **this** semester, that explains how to proceed this semester to get these adjustments made in Mathematics courses. **This should be done during the first week of classes.** Only students who have been certified by the ODOS-Adaptive Programs and who have requested ODOS to send their certification letter to their instructor are eligible for academic adjustments.

Students who are currently undergoing an evaluation process to determine whether they are eligible for academic adjustments, are encouraged to find out **now** what procedures they will have to follow when they are certified, by requesting the above mentioned Information Sheet from MATH 242.

Large print copies of the Information Sheet are available from MATH 242 upon request.

IMPORTANT DATES:

Last day to drop a course without it being recorded: **Monday, September 8, 2008, 5:00 pm.** Last day to drop a course without a grade: **Monday, September 22, 2008, 5:00 pm.**

Last day to drop a course with a passing or failing grade: **Tuesday, October 28, 2008, 5:00 pm.**