

**Math 203–B01 (Matrix Algebra)  
Summer 2008**

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**Course web page:** Access from the page <http://math.gmu.edu/coursehomepages.htm>.

**Office hours:** MW 2:45–4:00pm and by appointment.

**Text:** D. Lay, *Linear Algebra and its Applications* (third edition, updated)

**Topics:** The course will cover portions of Chapters 1–6 in the text. Precise sections covered are indicated in the list of exercises accompanying this syllabus.

**General Comments:**

This is a summer course in which we must cover an entire semester's worth of material in about seven weeks. Therefore, the pace of this course is **extremely fast**. If you fall behind at any point in the course, you will very quickly find yourself in serious trouble. Therefore, do your best to stay caught up with the material. You should expect to work **at least 12 hours per week** outside of class in order to master the material in this course.

The last day to drop this course without receiving an F is Wednesday, June 18. You will have your first exam by that date. This grade should be an indicator of how well you might expect to do in the course. Use it to decide whether to stay or drop. If you are undecided about what to do you should talk with me first.

The course web page contains announcements and useful information for students in this course. Solutions to exams, and this syllabus will be made available in downloadable form. **You are responsible for checking the web page from time to time so that you will not miss important information.**

**Grading:**

*Homework.* Included with this syllabus is a list of homework exercises for the course. While homework will not count explicitly in your final grade, it is **vitaly important** that you do the homework exercises for a given section immediately after that section has been covered in lecture. The assigned problems are representative of the exam questions.

*Midterm Exams:* A total of 5 exams will be given during this course. Exams will be given on Wednesday June 11, June 18, June 25, July 2, and July 9 **during the first hour of class**. Your lowest exam score will be dropped. Consequently, no makeup exams will be given under any circumstances whatsoever. Your exam average will count for 8/11 of your final grade.

*Final Exam:* There will be a **cumulative final exam** given on Monday, July 21, 4:30pm–7:15pm in the same room where we have class. The final exam will count for 3/11 of your final grade.

The grading scale below is based on your correctly rounded semester average. There will be no curve.

A+:	99 +;	A:	92 - 98;	A-:	90 - 91;
B+:	88 - 89;	B:	82 - 87;	B-:	80 - 81;
C+:	78 - 79;	C:	72 - 77;	C-:	70 - 71;
		D:	60 - 69;		
		F:	0 - 59.		

## Homework Exercises

### Section Exercises

- 1.1 1-21 (odd)
- 1.2 1-4, 7-13 (odd)
- 1.3 1-5 (odd), 6, 9, 11, 12, 13, 15, 17
- 1.4 1-21 (odd)
- 1.5 3, 5, 7, 8, 9, 11, 19
- 1.7 1-21 (odd)
- 1.8 1-7 (odd), 8, 9-17 (odd)
- 1.9 1, 3, 5, 13, 17, 19, 21, 25, 27
  
- 2.1 1, 3, 5, 7, 8, 9, 10
- 2.2 1-7, 9, 10, 29, 31
- 2.3 1-9, 11, 12, 15, 33, 34
- 2.5 1, 5, 11, 13, 15
  
- 3.1 1, 3, 5, 41
- 3.2 5, 7, 21, 23, 25
- 3.3 1, 3, 5, 11, 19, 23
  
- 4.1 1-17 (odd), 18, 21
- 4.2 1-15 (odd), 31, 32
- 4.3 1-9 (odd), 13, 19
- 4.4 1-13 (odd), 17, 21, 27, 29, 31
- 4.5 1-13 (odd), 21, 23
- 4.6 1-9 (odd), 10-17
- 4.7 1-9 (odd), 13, 19
  
- 5.1 1-13 (odd), 17
- 5.2 1-17 (odd)
- 5.3 1, 5-17 (odd)
- 5.4 1-15 (odd)
  
- 6.1 1-11 (odd), 15-18
- 6.2 1-11 (odd), 12, 13
- 6.3 1, 3, 5, 7, 11, 13, 17
- 6.4 1-7 (odd)
- 6.5 1-11 (odd)