

INFORMATION FOR STUDENTS  
MA 322-002, *Matrix Algebra*  
FALL 2008

Instructor: James C. Beidleman

Phone: 257-1452

Office: 935 POT      Classroom CB 339

E-mail: clark@ms.uky.edu

Office Hours: To be announced

TEXT: *Linear Algebra and Its Applications*, 3rd ed., David C. Lay

CLASS PARTICIPATION: I expect each student to participate fully in the course. This means attending class, doing the homework, presenting problems at the board, asking questions.

HOMEWORK: Homework problems are the heart of the course. Problems will be assigned at the end of each section covered in the course. At the beginning of the next class, you will turn in a card showing what problems you can do. Details will be found on "The Cards Homework System."

EXAMINATIONS: There will be 3 exams. While the main emphasis on each examination will be on the material covered since the last examination, all examinations will be comprehensive; that is, over all the material covered from the beginning of the course. Each examination will be announced at least one week in advance. The final exam for MA 322-002 is December 16th at 1:00 PM.

GRADES: The first two exams are worth 100 points each. The third is worth 200 points. Homework is 100 points. Thus there will be a total of 500 points. Your grade will be determined by your point total and my subjective evaluation of how well you have mastered the course. Part of my evaluation will be based on class participation.

LANGUAGE: The ability to express ideas well, both in speech and in writing, is one of the main goals of education. I expect each student's work to be clear, well organized, and grammatically correct.

IMPORTANT DATES:

Wednesday	August 27	First day of classes
Monday	September 1	Labor Day - Academic Holiday
Wednesday	September 3	Last day to add a class
Wednesday	September 17	Last day to drop a class
Friday	October 20	Midterm
Friday	December 12	Last day of classes

## Problem Assignments

- Section 1.1 (1,3,4,5,7,11,13,15,23,24,25)  
1.2 (1,3,7,9,11,17,19,21,23,25,27)  
1.3 (1,3,5,9,11,13,15,17,21,23,24)  
1.4 (1,3,5,7,9,12,14,15,21,23,24,25)  
1.5 (1,3,5,9,15,16,19,23,24,25,26)  
1.7 (1,3,5,7,9,11,13,15,17,21,22)  
1.8 (1,3,5,9,11,13,17,19,20,21,22,24,29)  
1.9 (1,3,5,7,9,17,23,24,29,30,35)  
  
2.1 (1,2,3,4,5,6,9,10,11,13,15,16,23,27,30)  
2.2 (1,3,5,7,9,10,11,13,22,29,31,33)  
2.3 (1,3,5,6,7,11,12,13,17,24,36,37)  
2.5 (1,3,5,6,7,9,11,15,17,24)  
2.8 (1,2,5,6,7,9,10,15,16,21,23,24,25,27)  
2.9 (1,2,3,5,7,9,11,13,15,17,18,19)  
  
3.1 (1,3,5,7,9,11,15,19,21,22,23,25,27)  
3.2 (1,3,4,5,7,11,15,17,21,24,25,29,31,32)  
  
5.1 (1,2,3,5,7,9,11,13,17,19,21,22,25,27)  
5.2 (1,3,5,9,11,19,21,22,25)  
5.3 (1,2,3,5,7,11,17,21,22,24,27,28)  
  
6.1 (1-8,9,10,11,13,16,17,19,21,23,24,25,27,28)  
6.2 (1,3,5,7-11,13,15,16,17-20,21,23,24,26,27,29,32,33)  
6.3 (1,3,5,7,9,11,12,15,17,19,21,22,23)  
6.4 (1-4,7,9,11,13,15,17,19,20)  
6.5 (1-5,7,9,11,13,15,17,19)  
  
4.1 (1,3,5,6,7,8,9,10,13,14,23,24,35,36)  
4.2 (1,3,5,7,13,15,17,23,25,26,29,30,31,33,34,35)  
4.3 (1,3,5,9,10,12,13,15,19,21,22,23,29,31,32,33)  
4.4 (1,3,4,5,7,9,10,11,13,14,15,16,17,18,21,22,27,29)  
4.5 (1,3,7,10,11,13,15,16,17,19,20,21,25,29)  
4.6 (1,2,3,4,5,7,9,13,17,18)  
4.7 (1,3,5,7,9,11,12,13,14)  
4.9 (1,3,4,5,7,11)

## THE HOMEWORK CARDS SYSTEM

1. At each class, you are to turn in a  $3 \times 5$  card listing the problems from the current assignment that you have worked. Cards should be placed on the table at the front of the room, before class begins. Late cards will not be accepted ("Late" means after students have been chosen to present particular problems). The problems you list are those that *you are prepared to present to the class*. This doesn't mean that you are guaranteeing that your solution is correct. However, if your answer is different from the one in the back of the book, you should be prepared to explain the discrepancy.
2. Using the cards, I will choose students to present problems. You should take your written solution with you to the board. Although I will not routinely collect these solutions, I may ask any student to show me the written solution for any problem which they have listed on the card.
3. The top line of your card shows your name and the assignment number. Down the left side of the card, list the problems that you are prepared to present. In the lower right hand corner, circle the total number of problems listed. (This is the number that I will record as each student's homework score for that assignment.) Don't put circles around other numbers on the card.
4. The problem count for a problem with several parts is determined in one of two ways:
  - i) If the parts are separated by commas in the assignment, then each part is counted separately.
  - ii) If the parts are not comma separated, then you only list a problem if you have done all parts of it. Thus, there should not be any fractions in the total problem count in the lower right corner.

Example Assignment 2 Sec. 1.1 Ex. 1a, 1b, 1d, 1e, 3ab, 4c, 7, 8, 10

Mary could work 1a, 1b, 1d, 3a, 4c, 7, and 8, but not 1e, 3b, or 10. Hence, she lists the problems as shown; she doesn't list 3a, because 3ab is all one problem, and she hasn't done it all. In contrast, 1a, 1b, 1d and 1e are separate problems, since they are set off by commas.

The top line of Mary's card is:

Jones, Mary

Assignment 2

The left side of Mary's card shows:

1a

1b

1d

4c

7

8

In the lower right corner is

▷▷

## Expectations

A university class is a cooperative endeavor between student and teacher. Cooperative activities work better if each person understands the other's expectations.

Students can expect that I will

- Be present for every class or, on rare occasions, have a substitute.
- Be well prepared.
- Make every effort to answer their questions.
- Be available outside of class, at a mutually-convenient time.
- Inform them explicitly about what material will be on tests, and how they will be graded.
- Treat them with the respect and courtesy that I expect from them.

I expect that students will

- Accept primary responsibility for their learning.
- Participate in every class: be there, ask questions, answer questions. (The only acceptable reasons for missing class are those beyond the student's control: illness, accidents, family emergency, official University activities. Unacceptable reasons include: scheduling transportation which conflicts with class, studying for another class, jobs, oversleeping, unsubstantiated "personal problems".)
- Make a serious attempt at every homework problem.
- Conduct themselves appropriately in class
  - Only one person talks at a time, whether it's the teacher or a student.
  - Don't read newspapers, sleep, talk to your classmates, listen to electronic equipment.
  - Please remove your hat on entering class.
  - Turn off pagers and cellular phones.