

## Syllabus - Math 319-Fall 2005

**Instructor:** Dr. Bing Wei  
**Office:** Hume 310  
**Office Hours:** M, T, W, TH 11:00-11:50 Noon or by appointment  
**Phone:** 662-915-1250  
**E-mail:** bwei@olemiss.edu  
**Text:** Linear Algebra with Applications, 7th Edition, by S. J. Leon  
**Class Time:** M, W, F 1:00-1:50PM  
**Location:** Hume 201

**Course contents and Goals:** Matrices and Systems of Equations, Determinants, Vector Space, Linear Transformations, Eigenvalues and Eigenvectors, and Diagonalization. We will cover Chapters 1, 2, 3 and 4. Some parts of Chapter 6. Our goals are to enable students understand the concepts and rules of linear algebra, develop problem solving skills and apply concepts and theories learned in class to solve some application problems.

### Grading Policy:

1. Three major tests each counting 100 points (**Dates:** Wednesdays: Sept. 21, Oct. 19, Nov.16).
2. Six homework sets counting a total of 100 points will be given. (One can be dropped)
3. The final examination is comprehensive and will count 200 points.
4. The lowest test score is replaced by the average percentage on the final exam provided this average is higher.
1. The student shall prepare 4 large 8.5 by 11 inch blue examination books for use on the tests and final.

**Final grade:** The cumulative point total for the class is 600 points (300 tests, 100 homework, 200 final)

Grade	Points
A	540-600
B	480-539
C	400-479
D	330-399
F	0-329

### Very Important:

1. If a test is missed for any reason, a grade of 0 will be given. There will be no make up tests given for any reason other than official university functions. Any student who must miss an exam because of an official university function may reschedule the test before the test is originally scheduled. This is the only rescheduling allowed.
2. Late homework will be punished.
3. An "I" grade will not be given without the permission of the Department of Mathematics.
4. Students must show all work for all work in order to receive credit.
5. A student who wishes to discuss the grading policy, testing policy, or wishes to have a conversation regarding the instructor of the course should make an appointment with the course supervisor in the Department of Mathematics.
6. Any student having three or more final exams scheduled for the same day may arrange with the instructor to take either the 12:00 noon or 7:30 p.m. exam at another time. This is

the only reason that a final exam may be rescheduled. The student is required to take the final exam at the time scheduled.

7. Each student is responsible for all work missed due to absences.

**Special Note:** Students shall neither come into the class late nor leave early.

**Cheating:** The following statement is the policy of Department of Mathematics regarding cheating:

**Offenses:** Cheating on any exam, quiz, class work, or homework, theft of exam questions or possession of exam questions prior to the time for the exam shall all be offenses subject to the appropriate penalties.

**Penalties:** The penalty for commission of any offense set out above is failure in the course, and subject to the approval of the Chancellor, dismissal or suspension from the University.

**Withdrawal Deadline Date for the 2005 fall Semester:** Sept. 26, 2005. After the course withdrawal deadline, courses will be recorded on University records and the W grade will be recorded if the student is not failing the course at the time of withdrawal; otherwise the grade recorded will be an F. After the course withdrawal deadline a student may drop a course only in cases of extreme and unavoidable emergency as determined by the student's academic dean. Dropping the course after the deadline will not be permitted because of dissatisfaction over an expected grade or because the student is changing their major.

**Homework Due Dates:** Sept. 7, Sept. 16, Oct. 5, Oct. 14, Nov. 2, Nov. 11

**Special Dates:** Labor Day: Monday, September 5, 2005  
Thanksgiving: Monday, November 21 - Friday, November 25, 2005  
Last Day of Class: Friday, December 2, 2005  
Final Exam: noon, December 9, 2005

## **Assignments (Math319)**

There are six sets of homework problems which shall be turned in. Each set will count 20 points (one dropped) which makes 100 points for the Homework. You will get 6 points for handing in the homework for each set on time and I will arbitrarily choose 7 problems to grade (each counts 2 points). If you have any questions about the assignments, you should seek help from me during my office hours or by appointment. Please solve each problem **step by step** and **remember** to turn in the assignments on the **indicated dates** to me.

### **Assignment 1 (Due Sept. 7)**

Page 11-13: 1(a),(c), 3(a),(c), 5(a),(d), 7, 8;

Page 25-27: 1(a),(c),(f), 3(a),(b),(e), 5(a),(c),(e),(g), 6(a),(b), 8, 10

Page 57-58: 1(a),(c),(e), 2(a),(c),(e), 4

### **Assignment 2 (Due Sept. 21)**

Page 58-59: 6, 7, 10, 13, 17; Page 69-71: 1, 3(a),(c), 5, 8(a),(c)

10(a),(e),(f), 17; Page 79-80: 1, 3, 5, 7

### **Assignment 3 (Due Oct. 5)**

Page 96-97: 1, 3(a),(d),(g), 5, 9; Page 103-105: 1, 3(a),(c),(e), (f), 6, 13

Page 109-110: 1(a),(c), 2(a),(c),(d), 5; Page 121-122: 1, 4, 5, 7

### **Assignment 4 (Due Oct. 14)**

Page 131-133: 1, 3(a),(c),(f), 4(a),(c), 9(a),(b),(c), 11, 14, 17

Page 144-145: 1(a),(c),(e), 4, 6, 7, 11, 15

### **Assignment 5 (Due Nov. 2)**

Page 150-151: 3, 4, 5(a),(b),(c), 7, 8, 11; Page 161: 1, 3, 5, 7, 8, 9

Page 167-168: 1, 2(a),(c), 3, 4(a),(c),(d), 8,

### **Assignment 6 (Due Nov. 11)**

Page 182-184: 1, 3, 5, 7, 17; Page 196-197: 2, 3, 4, 6, 7, 8

Page 310-312: 1(a),(f),(h), 2, 3, 6, 11, 22

### **Suggested problems:**

Page 340-341: 1(a),(c),(e), 2(a),(c),(e), 6, 7, 9