

MA 316 LINEAR ALGEBRA II Spring 2006

MW 3-4:15 p.m. ILB 345

Instructor: Dr. Victoria Sadovskaya. You may call me Victoria.
E-mail: sadovska@jaguar1.usouthal.edu
Office: ILB 316
Office phone: 460-6264 ext. 2622
Office hours: MW noon - 1 p.m. and 2:30 - 3 p.m., or by appointment
Course homepage: www.southalabama.edu/mathstat/personal_pages/sadovska/316/316.html

Prerequisite: MA 237.

Text: *Linear Algebra: A Pure and Applied First Course (1st edition)* by E. Goodaire.

Note that some of the topics discussed in this course are not covered in the book.

Course description: This course is a continuation of MA 237. Topics include inner product spaces, spectral theorem for symmetric operators, complex vector spaces, and Jordan canonical form. Additional topics may be included as time permits.

Objectives: The goal of this course is to study more advanced topics of linear algebra. Students will gain a rigorous understanding and working knowledge of the main concepts, theorems and techniques. Mathematical exposition will be emphasized, and students will be expected to understand and produce proofs.

Attendance: You are expected to attend every class and participate in discussions. Please notify me in advance if you have to miss a class. You are responsible for finding out what you missed on the days when you were unable to attend. *Class attendance and participation will be considered in determining borderline grades.*

Homework: A homework assignment will be given each Wednesday, it will be due the following Wednesday. *No late homework will be accepted.*

Standards of written work: The solutions must be neatly and clearly written and logically structured. You may use without justification the statements established in class, the results of previous homework assignments, and the statements in the book (only from the sections already covered in MA 316 or MA 237). You may discuss homework problems with other students and with me, but the final write-up must be your own.

Exams: There will be two in-class exams and a two-hour cumulative final exam.

Exam 1:	Wednesday, February 15.
Exam 2:	Wednesday, March 29.
Final Exam:	Wednesday, May 3, 3:30-5:30 p.m.

All students must plan to take exams at the scheduled times. If you are unable to attend an exam you should notify me promptly: before the exam if possible, and otherwise before the next class. If there is a compelling reason for absence, such as illness or a family emergency, you will be allowed to a make-up exam. Otherwise, the score for the missed test will be recorded as zero.

Final grade computation: Your final score will be calculated as follows:

Homework:	35%
Exam 1:	20%
Exam 2:	20%
Final Exam:	25%

Your letter grade will be determined according to the following scale:

A :	at least 85%
B :	at least 75%
C :	at least 65%
D :	at least 55%
F :	below 55%

Notification of course grades: Final grades will be available on PAWS when posted.

Calculators: A calculator is not required for the course.

Departmental tutoring: Free tutoring is available from the Department of Mathematics and Statistics. Please check the bulletin board outside ILB 325 for details or visit

<http://www.southalabama.edu/mathstat/css-coursehelp.shtml>

Dropping: The last day to drop from a course is Friday, April 7. Please speak with me before making a final decision to drop the class.

Academic accommodations: If you have a specific disability that qualifies you for academic accommodations, please notify me and provide certification from the Office of Special Student Services. It is located in the Student Center, Room 270, Phone 460-7212.

Note: *The requirements and the policies may be modified as circumstances dictate. Such changes will be announced in class and posted on the course homepage.*