MA 316 – Linear Algebra II
Spring 2017; Section 101

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Office hours. MW, 9:05-1:15pm, or by appointment
Class schedule. MWF, 8:00-8:55pm, in ILB 410

Overview. This course is a continuation of MA 237 (Linear Algebra). Topics include inner product spaces, the spectral theorem for symmetric operators, complex vector spaces, and the Jordan canonical form.

Learning objectives. Students will develop a good conceptual and computational understanding of linear algebra. Further, students are expected to be able to state definitions precisely, prove some small theorems, follow the proofs of bigger theorems, and apply the aforementioned in a variety of real world situations.

Textbook. *Linear Algebra with Applications*, by Jeffrey Holt (W. H. Freeman, 2013)

Course format. Web-enhanced

Pre-requisite. C or better in MA 237 (Linear Algebra)

Grading

Exams. There will be two in-class midterm exams and a comprehensive final exam. Notes, books, calculators or computers are not allowed during any of the exams or quizzes.
Our **tentative** exam schedule is:

- Midterm Exam 1: Wednesday, February 15
- Midterm Exam 2: Wednesday, March 29
- Final Exam: Monday, May 1 — 8:00-10:00am

Quizzes. Short quizzes will be given most weeks. The main purpose is to make sure that no one gets lost, and it is a way for you to monitor your progress.

Grades. Your grade will be based on the total sum of your scores on the midterm exams, quizzes, and the final exam.

- Midterm Exams: 50% in total
- Quizzes: 20%
- Final Exam: 30%

The resulting numerical score is then translated to your semester grade as follows:
$[90, 100]$: A, $[80, 90)$: B, $[70, 80)$: C, $[60, 70)$: D, $[0, 60)$: F.

Make-up policy. There will be no make-ups for missed midterms or quizzes. Missed quiz scores are dropped if a valid excuse is presented. If a midterm is missed and appropriate documentation (e.g. a doctor's note) is presented in a timely manner, then the corresponding exam score will be replaced with the final exam score. Otherwise, the score for the missed exam will be recorded as zero.

Online grades. Your grades will be posted to USAonline. Please check your grades weekly at https://ecampus.southalabama.edu and report any discrepancies within two weeks.

Dropping. The final drop date is Friday, March 31. Please speak with me (and/or your advisor) before making a final decision to drop. Ideally, talk to me as soon as you are getting behind, so I can help you complete the course successfully.

Course organization

Online material. This syllabus as well as relevant information and material for this course can be found at our course website.

Attendance. Attendance of all lectures is mandatory and roll will be taken. You are responsible for finding out what you missed on days when you were unable to attend.

Let X be the number of times you miss class without excuse throughout the semester.

- If $X \leqslant 3$, then your lowest quiz score will be dropped.
- If $X > 6$, then your overall semester grade will be decreased by a full letter grade.

Students are expected to be on time in class. Frequent late arrivals of a student to the classroom will be considered a disruption and a penalty may be applied in this circumstance.

Cell phones and other electronic devices. The use of cell phones and other electronic devices, such as laptops, is not acceptable during lecture and is reserved for emergencies.

Tutoring lab. The department offers a tutoring lab in room ILB 235 to all students taking mathematics and statistics classes. There is no lab fee. Please check the bulletin board outside ILB 235 for details.

Dates of interest.

- Monday, January 16: Martin Luther King Holiday
- Monday–Friday, March 13–17: Spring Break
- Friday, March 31: Last day to drop
- Friday, April 28: Last day of classes

Changes. Not all classes progress at the same rate. Thus course requirements and policies might have to be modified as circumstances dictate. You will be given notice if the course policies need to be changed.

Additional Academic Course Policies. Information on Student Disability Services, Academic Disruption Policy and Class Demeanor, Student Academic Conduct Policy, Operational Disruptions, and other university policies are posted on USAonline.

Welcome to Linear Algebra II!
...and please ask anytime if you have questions.