

MATH 544 Spring 2017 (Syllabus)

Meeting Information:

Classroom Location: LC 405

Days and Times: MWF 10:50AM–11:40AM

Instructor Information

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Office Location: LC 317Q

Office Hours: MWF 11:45PM–1:00PM or by appointment

Course Homepage: people.math.sc.edu/xfliu/teaching/Spring2017/math544/math544.htm

Textbook

Introduction to Linear Algebra, 5th Edition, by Lee Johnson, Dean Riess and Jimmy Arnold.

Prerequisite

A grade C or better in Math 300.

Subject Materials

This course will cover the materials presented in Chapters 1-6 of the text.

Homework and Quizzes

Homework will be assigned for each section, and will not be collected, but you are supposed to do them all. REMEMBER: the more problems you do, the better you understand the material. Students are encouraged to work independently on homework sets. There will be approximately one quiz per week in Thursday's class, and no quiz during the exam weeks. There are two to four short questions in one quiz. The quiz problems will be either the same as, or very similar to those from the homework. Thus, if a student has made a good attempt at the homework, he/she should do well on the quiz. Two lowest quiz grades will be dropped from the final grade calculation.

Exams

There will be two midterm exams and a comprehensive final exam. The exams are "closed book": no books, no notes, no calculators, no laptop computer or equivalent technology, etc. There are no early exams. A late exam is only possible for a written legitimate documented reason. Note that student athletes, participating in a USC athletic event and with appropriate documentation, are exempt from this rule. You must take your exams with the lecture for which you are registered.

Grades

Quizzes (25%)
Exam 1 (15%)
Exam 2 (15%)
Exam 3 (15%)
Final Exam (30%)

Reading

Reading the textbook **in advance** of the lecture is strongly encouraged. Benefits of this preparation include obtaining a familiarity with the terminology and concepts that will be encountered (so you can distinguish major points from side issues), being able to formulate questions about the parts of the presentation that you do not understand, and having a chance to review the skills and techniques that will be needed to apply the new concepts.

Learning Outcome

Students who successfully complete Math 544 are expected to master fundamental concepts and solve problems drawn from matrix algebra, solution of linear systems; notions of vector space, independence, basis, dimension; linear transformations, change of basis; eigenvalues, eigenvectors, diagonalization; and topics to be chosen from inner product spaces and the structure of their operators.

Important Date

The deadline to drop the course without a WF being recorded is Thursday, March 2, 2017.

Cell Phone and Computer Policy

Please remember to turn off or silence your cell phone prior to class. No texting allowed during class. Computers can only be used to make notes during class, and playing computer games during class is not tolerated.

Graduate Credit

Graduate students taking Math 544 for graduate credits will have additional or some different questions on tests.

Attendance

Attendance at every class meeting is important - and expected. Students missing more than 10% of the class meetings (4 days) can have their grade lowered.

Academic Dishonesty

Cheating and plagiarism in any form is not tolerated. If a student is caught cheating, I will follow the guidelines as set forth in the USC Honor Code and other University guidelines.