

MAS 4105 Linear Algebra 1 – Spring 2015

Section 14G8, Little Hall 125

MTWF 4th period (10:40 – 11:30)

Professor Bruce H. Edwards

409 Little Hall
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Office Hours

Monday, Wednesday, Friday 9:00 – 10:30. Also by appointment.

Daily Schedule — Topics and homework

Prerequisites

Grade of C or better in Calculus 3, and C or better in either MAS 3300 or MHF 3202

Textbook

Linear Algebra, 4th edition, by Friedberg, Insel, and Spence, Prentice Hall, 2003.
 We will cover most of Chapters 1 – 6.

Course Description

MAS 4105 is a 4 credit course that stresses the theoretical aspects of the following topics: vector spaces, linear transformations, linear equations and matrices, determinants, inner products, eigenvalues, projections, and least squares. The course serves both as a transition for the mathematics major from a study of techniques into more conceptual mathematics, and as a coherent foundation in linear algebra for engineering and science majors. The student is expected to reason through and coherently write up proofs of theorems, as well as develop computational skills. However, computational skills are not stressed as much as in MAS 3114, Computational Linear Algebra. MAS 4105 is designed to serve majors in mathematics and those engineering and science students interested in the theoretical aspects of the subject.

Website: people.clas.ufl.edu/bruceedwards/mas410515/

Written Work and Participation

Exercises from the text will be assigned and discussed in class. Some homework problems will be turned in and graded. You must work alone on these graded problems. You should be prepared every day to participate in class discussions. Up to 5 bonus participation points can be earned.

Quizzes

There will be 20 unannounced 2-point quizzes given throughout the semester. The best 16 scores will determine your quiz total.

Tests (Written medical documentation is required for makeup tests.)

Test 1: Friday, January 30
 Test 2: Tuesday, February 24
 Test 3: Friday, March 27
 Test 4: Monday, April 20

200 Total Points

- Four 40-point tests: 160
- 16 2-point quizzes: 32
- Homework: 8

Grade

- A: 90 – 100%
- A-: 87 – 89.99%
- B+: 84 – 86.99%
- B: 80 – 83.99%
- B-: 77 – 79.99%
- C+: 74 – 76.99%
- C: 70 – 73.99%
- D: 60 – 69.99%
- E: 0 – 59.99%

University Resources and Policies

- [Disability Resources](#)

Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

- [Honor Code](#)

UF students are bound by The Honor Pledge which states, "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." The Honor Code specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class."

