

# Linear Algebra

## Spring 2014

Section	Period	Meeting Time	Room
3169	MTWF 4th	10:40–11:30	Little 237
6816	MTWF 5th	11:45–12:35	Little 237

### Professor Bruce H. Edwards

409 Little Hall  
 (352) 294-2303  
 bruceedwards@ufl.edu

### Office Hours

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

### Daily Schedule

— Lecture topics and homework assignments

### 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 on linear algebra that stresses the theoretical aspects of the following topics:

- vectors and 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: <http://people.clas.ufl.edu/bruceedwards/mas-4105/>

### Study Tips

— Study tips for math courses

### 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 must 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: Wednesday, January 29
- Test 2: Friday, February 21
- Test 3: Wednesday, March 26
- Test 4: Monday, April 21

Test 1: Wednesday, January 20  
Test 2: Friday, February 21  
Test 3: Wednesday, March 26  
Test 4: Monday, April 21

**Grade: 200 Total Points**

4 40-point tests:	160
16 2-point quizzes:	32
Homework:	8

<b>Grade</b>	<b>A</b>	<b>A-</b>	<b>B+</b>	<b>B</b>	<b>B-</b>	<b>C+</b>	<b>C</b>	<b>D</b>	<b>E</b>
<b>Percent</b>	90–100%	87.0–89.99%	84.0–86.99%	80.0–83.99%	77.0–79.99%	74.0–76.99%	70.0–73.99%	60–69.99%	0–59.99%

**University of Florida Policies**

- Academic Honesty Guidelines
- Disability Resources