Linear Algebra
Spring 2014

<table>
<thead>
<tr>
<th>Section</th>
<th>Period</th>
<th>Meeting Time</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>3169</td>
<td>MTWF 4th</td>
<td>10:40–11:30</td>
<td>Little 237</td>
</tr>
<tr>
<td>6816</td>
<td>MTWF 5th</td>
<td>11:45–12:35</td>
<td>Little 237</td>
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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
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
Grade: 200 Total Points

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

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<thead>
<tr>
<th>Grade</th>
<th>A</th>
<th>A-</th>
<th>B+</th>
<th>B</th>
<th>B-</th>
<th>C+</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
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<tbody>
<tr>
<td>Percent</td>
<td>90–100%</td>
<td>87.0–89.99%</td>
<td>84.0–86.99%</td>
<td>80.0–83.99%</td>
<td>77.0–79.99%</td>
<td>74.0–76.99%</td>
<td>70.0–73.99%</td>
<td>60–69.99%</td>
<td>0–59.99%</td>
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University of Florida Policies

Academic Honesty Guidelines
Disability Resources