

# MAS 4105: Linear Algebra 1

## Fall 2017

**Location:** MAT 2  
**Time:** MTWF 1:55pm-2:45pm  
**Instructor:** Michael Hull  
**Email:** mbhull@ufl.edu  
**Website:** people.clas.ufl.edu/mbhull/  
**Office:** LIT 452  
**Office Hours:** R 1pm-3pm

**TA:** Doug Pfeffer  
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**Office:** LIT 433  
**Office Hours:** F 10:40am-11:30am

### **Course Description**

Linear equations, matrices, vector spaces, linear transformations, determinants, eigenvalues and inner-product spaces. Includes both theory and computational skills. Develops the ability to reason through, and coherently write, proofs of theorems. For math majors, this course serves as a transition from a study of techniques into more conceptual math; for engineering and science majors, it serves also as a coherent foundation in linear algebra.

### **Textbook**

*Linear Algebra* by Stephen H. Friedberg, Arnold J. Insel, and Lawrence E. Spence.

### **Homework**

Students will be assigned to read sections of the textbook and complete practice problems at the end of those sections. The practice problems for each section will be posted online here: <https://people.clas.ufl.edu/mbhull/mas-4105-linear-algebra-1/>. Practice problems will not be collected or graded.

## **Quizzes**

There will be a quiz once a week, usually on Wednesdays. Each quiz will be based on recently assigned practice problems. Students will be allowed to drop their 2 lowest quiz grades.

## **Proofs**

Since developing the ability to write proofs is an explicitly stated goal for this course, students will be assigned to write a proof once a week. These proofs will typically be assigned on Friday and turned in the following Tuesday; as with quizzes, the two lowest proof grades will be dropped. Proofs are expected to be written legibly in complete sentence and using correct grammar. While students are allowed to discuss the ideas in these proofs outside of class, students are *not allowed to directly copy proofs from each other or from any other source*.

## **Exams**

There will be an in-class midterm exam and a final exam. The midterm will be tentatively scheduled for Wednesday, 10/11. The final exam will be Thursday, 12/14 10:00am-12:00pm. Students who expect to have conflicts with the exam times should make arrangements with the instructor as soon as possible. Make-up exams will only be given under extraordinary circumstances.

## **Grades**

Final grades for the course will be computed as follows:

Quizzes:	30%
Proofs:	30%
Midterm:	20%
Final:	20%

Final letter grades will be assigned according to the standard scale: 93-100 A, 90-92 A-, 87-89 B+, 83-86 B, 80-82 B-, 77-79 C+, 73-76 C, 70-72 C-, 67-69 D+, 63-66 D, 60-62 D-, 0-59 E.

### **UF Grading Policy**

<https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

### **Attendance and Participation**

Attendance in class is required, see the university attendance policy at <https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx> for more information.

### **Disability Accommodation**

Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, [www.dso.ufl.edu/drc/](http://www.dso.ufl.edu/drc/)) 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.

### **Course Evaluation**

Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at <https://evaluations.ufl.edu> during the last two or three weeks of the semester. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results/>.

