

Syllabus

MAS4105/17078 Linear Algebra 1 -- Spring 2020

Instructor: Ashleigh Thomas

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Little Hall 324

Office Hours: Monday 12:30-1:40 and Wednesday 10:40-11:30

TA: Lauren Wickman

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Little Hall 403

Office Hours: Monday 3:00-3:50 and Tuesday 10:30-11:30

Additional Office Hours in Little Hall 215: Thursday 9:35-10:25

Course Objectives

This course is an introductory linear algebra course that covers both theory and some computation. Students will develop the skills to read and produce proofs of theorems.

Textbook

Linear Algebra, by Insel, Friedberg and Spence (4th ed.)

Schedule of Topics

The following schedule (including midterm exam dates) is tentative.

Week of	Topics	Additional Notes
Jan 6	Ch 1: vector spaces and subspaces	
Jan 13	Ch 1: systems of linear equations	
Jan 20	Ch 1: bases and linear independence	
Jan 27	Ch 2: linear transformations, nullspace, range	Midterm Fri 1/31
Feb 3	Ch 2: linear transformations, change of basis	
Feb 10	Ch 3: elementary matrix operations	
Feb 17	Ch 3: matrix operations	
Feb 24	Ch 3 and review	

Mar 2	--	Spring Break
Mar 9	Ch 4: determinants	
Mar 16	Ch 4: determinants	
Mar 23	Ch 5: eigenvalues and eigenvectors	Midterm Tue 3/24
Mar 30	Ch 5: diagonalization	
Apr 6	Ch 6: inner product spaces	
Apr 13	Ch 6: Gram-Schmidt and orthogonality	
Apr 20	Review	
Apr 27	--	Final Exams

Final Exam: Apr 28, 2020, 7:30-9:30AM

Evaluation

There will be homework and midterm exams throughout the semester. Homework will take the form of written assignments to be turned in and/or in-class homework quizzes. All assignments will factor into a final grade according to the following breakdown:

Homework: 40%

Midterms: 30%

Final: 30%

Attendance and make-up

Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found at:

catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/. Midterm exams cannot be made up. A student with an excused absence for a midterm will not have that midterm counted towards their grade.

Accommodations

Students with disabilities who experience learning barriers and would like to request academic accommodations should connect with the disability Resource Center by visiting <https://disability.ufl.edu/students/get-started/>. It is important for students to share their accommodation letter with their instructor and discuss their access needs, as early as possible in the semester.

Grading policies

UF grading policies can be found here:

<https://catalog.ufl.edu/UGRD/academic-regulations/grades-grading-policies/>.

Online Course Evaluation

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at

<https://gatorevals.aa.ufl.edu/students/>. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via <https://ufl.bluera.com/ufl/>. Summaries of course evaluation results are available to students at <https://gatorevals.aa.ufl.edu/public-results/>.