



# SYLLABUS MAS 4105 LINEAR ALGEBRA SPRING 2020

PROVISIONAL VERSION – UNDER CONSTRUCTION

This syllabus is subject to change. Created Monday, December 23, 2019.

Updated Thursday, January 9, 2020 at 11:12am

Section	Period	Meeting Time	Room
1106	MTWF 6th	12:50 – 1:40pm	MAT 006

## Professor F.G. Garvan

408 Little Hall  
(352) 294-2305  
fgarvan@ufl.edu

## Office Hours

Monday, Wednesday and Thursday (11:00am – 12:00pm).  
Also available by appointment.

## 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  
convexity (if time permits)

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/fgarvan/linalg-spring-2020](http://people.clas.ufl.edu/fgarvan/linalg-spring-2020)

## Homework

Homework problems will be assigned, collected and graded.

## Assessment

Homework	25%
Exam 1	25%
Exam 2	25%
Exam 3	25%

## Exams

Exam 1: Friday February 7

Exam 2: Friday March 20

Exam 3: Monday April 20

Optional Replacement Exam: Wednesday, April 29, 12:30 PM – 2:30 PM

## Grade:

Grading scale: A 90%; A- 87%; B+ 83%; B 80%; B- 77%; C+ 73%; C 70%; C- 67%; D+ 63%; D 60%; D- 57%; E 56%

## Attendance

Attendance is recommended.

### **Additional Information:**

*Grades.* Grading will be in accord with the UF policy stated at <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>. Also see the current UF policy on assigning grade points.

*Academic Honesty.* The course will be conducted in accordance with the University honor code and academic honesty policy

*UF students are bound by The Honor Code 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 questions or concerns please consult with the instructor.*

*Accommodation for students with disabilities.* Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, <https://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.

*Online Evaluations.* "Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at <https://gatorevals.aa.ufl.edu>. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results/>."

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### **Additional Information- Health and Wellness:**

U Matter, We Care:

If you or a friend is in distress, please contact [ummatter@ufl.edu](mailto:ummatter@ufl.edu) or 352-392-1575 so that a team member can reach out to the student.

Counseling and Wellness Center:

<https://www.counseling.ufl.edu>; 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies.

Sexual Assault Recovery Services (SARS):

Student Health Care Center, 392-1161.

University Police Department:  
392-1111 or 9-1-1 for emergencies, <http://www.police.ufl.edu/>

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#### **Additional Information- Academic Resources:**

E-learning technical support  
352-392-4357 (option 2)  
[Learningsupport@ufl.edu](mailto:Learningsupport@ufl.edu)

Career Connections Center:  
Reitz Union, 392-1601.  
Career assistance and counseling, <https://career.ufl.edu>

Library Support:  
<http://cms.uflib.ufl.edu/ask>

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Created by F.G. Garvan([fgarvan@ufl.edu](mailto:fgarvan@ufl.edu)) On Monday, December 23, 2019.



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