



# SYLLABUS MAS 4105 FALL 2020

PROVISIONAL VERSION – UNDER CONSTRUCTION

This syllabus is subject to change. Created Friday, August 28, 2020.

Updated Sunday, August 30, 2020 at 3:53pm

Section	Period	Meeting Time	Room
1071 / 16067	MTWF 5th	11:45 – 12:35pm	ONLINE

## Professor F.G. Garvan

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

## Office Hours (via ZOOM)

Monday Period 7 and Wednesday Period 3  
Also available by appointment.

## TA: Cristina Korb

email: cekorb@ufl.edu

## 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:

Vector Spaces (3 weeks)

Linear Transformations (3 weeks)  
Elementary Matrix Operations and Systems of Linear Equations (3 weeks)  
Determinants (1 week)  
Diagonalization (2 weeks)  
Inner Product Spaces and Applications to Linear Models (2 weeks)  
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-fall-2020](http://people.clas.ufl.edu/fgarvan/linalg-fall-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, October 2

Exam 2: Friday, November 6

Exam 3: Monday, December 7

Optional Replacement Exam: Friday, December 18, 2020, 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:

**UF Policy on recorded classes.** Our class sessions may be audio-visually recorded for students in the class to refer back and for enrolled students who are unable to attend live. Students who participate with their camera engaged or utilize a profile image are agreeing to have their video or image recorded. If you are unwilling to consent to have your profile or video image recorded, be sure to keep your camera off and do not use a profile image. Likewise, students who un-mute during class and participate orally are agreeing to have their voice recorded. If you are not willing to consent to have your voice recorded during class, you will need to keep your mute button activated and communicate exclusively using the “chat” feature, which allows students to type questions and comments live. The chat will not be recorded or shared. As in all courses, unauthorized recording and unauthorized sharing of recorded materials by students or any other party is prohibited.

**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/>.”

**Diversity, Equity and Inclusion Statement.** The Mathematics Department is committed to diversity and inclusion of all students. We acknowledge, respect, and value the diverse nature, background and perspective of students and believe that it furthers academic achievements. It is our intent to present materials and activities that are respectful of diversity: race, color, creed, gender,

gender identity, sexual orientation, age, religious status, national origin, ethnicity, disability, socioeconomic status, and any other distinguishing qualities.

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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 Friday, August 28, 2020.

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