MAS 4105: Linear Algebra Fall 2022

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Class Meetings: MWF 12:50–1:40pm (period 6)
Recitations: Tu 12:50–1:40pm (period 6)
Prerequisites: (MAC 2313 or MAC 3474) and (MAS 3300 or MHF 3202) with C or above
Textbook (Required): Linear Algebra, by Insel, Friedberg and Spence (4th ed.)

Course Description and Objectives: Concepts in linear algebra are fundamental to virtually every field of mathematics, science, and engineering. In this course, students will undergo a rigorous introduction to linear algebra by reading and writing proofs. Thus, while computational methods and applications will be explored, this course is primarily designed to serve science, technology, engineering, and mathematics (STEM) students interested in a conceptual understanding of the subject.

Grading, quizzes, and midterms: Homework problems will be assigned and due each week, and there will be two midterms. All homework, midterm, and final grades will be posted to Canvas.
Your course grade will be determined as follows:

- Written assignments/homework assignments: 20% (Assigned Weekly)
- Two Midterms:
  - Midterm 1: 20% (Wednesday, September 28th)
  - Midterm 2: 20% (Wednesday, October 2nd)
- Final exam: 40% (Dec 14th 2022, 8PM - 10PM)

Notify me as early as possible if you will miss a quiz or midterm. If you notify me after the quiz or exam date you will not be allowed to make up assignments or exams without a valid medical reason. Since unexpected events happen, I will drop 3 of your lowest homework scores. Make-up exams may be provided for documented special reasons, such as medical emergencies. Exams can be rearranged for student athletes only if I am notified at least four weeks in advance. Each midterm is closed-book, closed-notes.

Final letter grade assignments will be no stricter than the following: 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

Grade points and grading policies: We will adhere to the university grading policies that can be found here: https://catalog.ufl.edu/UGRD/academic-regulations/grades-grading-policies/

Attendance: Attendance is required. We will adhere to the university attendance policies that can be found here: https://catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/.

Schedule (Tentative):

- Weeks 1-2: (1) Vector spaces
- Weeks 3-4: (2) Linear transformations and matrices
- Weeks 5-6: (3) Elementary matrix operations and systems of linear equations
- Weeks 7-8: (4) Determinants
- Weeks 9-10: (5) Diagonalization
- Weeks 11-: (6) Inner product spaces

Student Evaluations: 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/`.

Disabilities statement: 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/`. 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.

Academic Integrity: UF students are bound by The Honor 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 Conduct Code specifies a number of behaviors that are in violation of this code and the possible sanctions. See `https://sccr.dso.ufl.edu/process/student-conduct-code/` to read the Conduct Code. If you have any questions or concerns, please consult with the instructor or TA in this class.