

MAS 4105: Linear Algebra, Fall 2022

Time: MTWF, 11:45 – 12:35

Location: MAT 011

Instructor: Libin Rong

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Office: Little Hall 452

Phone: 352-294-2394

Office hours: MW, 10:40 – 11:30 or by appointment

Teaching Assistant: Andres Zuniga

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Office hours: TBA

Course Description: Linear equations, matrices, vector spaces, linear transformations, determinants, eigenvalues, inner-product spaces. This course includes both theory and computation. Students are expected to develop the ability to reason through, and coherently write up, 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 as a coherent foundation in linear algebra.

Prerequisites: Grade of C or better in MAC 2313 or MAC 3474 and in MAS 3300 or MHF 3202.

Textbook: Linear Algebra, 4th edition, by Friedberg, Insel and Spence.

Homework: Homework will be assigned for practice on a regular basis but won't be collected. Keeping up with the homework is extremely important in order to be successful in this course.

Quizzes: There will be a quiz once a week, on Tuesday given by the Teaching Assistant. Each quiz will be based on the HW assigned in the previous week. The two lowest quiz grades will be dropped.

Exams: There will be four in-class exams each with 100 points. The lowest of the first three exams will be dropped. Tentative dates for the exams are:

Exam 1: 9/16 Friday

Exam 2: 10/14 Friday

Exam 3: 11/9 Wednesday

Exam 4: 12/7 Wednesday

Grades: Grades are determined by quizzes (25%) and three exams (75%). Final grades are assigned according to the 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.

Attendance and make-up policy: Attendance of each class is expected. A make-up exam will be given only under extraordinary circumstances with a documented excuse. All the make-up exams will be given at 3:00 PM on 12/13/2022 in the same classroom. See UF's attendance policy <https://catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/>

Academic Honesty: Students are expected to know and follow the Code of Student Conduct, which can be found at <https://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/>

U Matter We Care: Your wellbeing is important to the UF. The U Matter, We Care initiative is committed to creating a culture of care on our campus by encouraging members of our community to look out for one another and to reach out for help if a member of our community is in need. If you or a friend is in distress, please contact umatter@ufl.edu so that the U Matter, We Care Team can reach out to the student in distress. A nighttime and weekend crisis counselor is available by phone at 352-392-1575. The U Matter, We Care Team can help connect students to the many other helping resources available including, but not limited to, Victim Advocates, Housing staff, and the Counseling and Wellness Center. Please remember that asking for help is a sign of strength. In case of emergency, call 9-1-1.

Additional Information

Grades: Grading will be in accord with the UF policy stated at <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>.

Honor Code: “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 [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 any questions or concerns, please consult with the instructor or TAs in this class.”

Accommodations 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.” **If students are approved to take exams at DRC, they need to file a request through the DRC website at least four business days before EACH EXAM.**

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 the same website.”

Contact information for the Counseling and Wellness Center: <https://counseling.ufl.edu/>, 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies.