

MATH 313: INTRODUCTION TO LINEAR ALGEBRA
MOWeFr 12:00 pm - 12:50 pm.
Physics Atmospheric Sciences, Rm 314.
Section 3, Fall 2018.

Instructor: Dr. Houssam Abdul-Rahman

Office Hours: Monday and Wednesday - 1:15-2:15 pm, and by appointment.

Office: Mathematics building, room 715.

Phone: 621-4364.

Email: houssam@math.arizona.edu.

Instructor Teaching Homepage: <http://math.arizona.edu/~houssam/Teaching.html>.

Text: *Linear Algebra and Its Applications*, by David C. Lay, Custom Edition for the University of Arizona, based on the Fifth Edition.

General Description:

Linear equations in linear algebra (4 weeks).

Properties Matrices (3 weeks).

Vector spaces (3 weeks).

Eigenvalues and eigenvectors (2 weeks).

Inner product, length, orthogonality (2 weeks).

Attendance: Students are expected to attend every scheduled class. **You will be administratively dropped if you miss more than four class meetings.**

- The UA's policy concerning Class Attendance, Participation, and Administrative Drops is available at:
<http://catalog.arizona.edu/policy/class-attendance-participation-and-administrative-drop>.
- The UA's policy regarding absences for any sincerely held religious belief, observance or practice will be accommodated where reasonable. See: <http://policy.arizona.edu/human-resources/religious-accommodation-policy>.
- Absences pre-approved by the UA Dean of Students (or Dean Designee) will be honored. See: <https://deanofstudents.arizona.edu/absences>.

Classroom Behavior Policy: To foster a positive learning environment, students and instructors have a shared responsibility. We want a safe, welcoming, and inclusive environment where all of us feel comfortable with each other and where we can challenge ourselves to succeed. To that end, our focus is on the tasks at hand and not on extraneous activities (e.g., texting, chatting, reading a newspaper, making phone calls, web surfing, etc.).

Grading Policy:(Subject to change) The final grade will consist of homework, oral and written quizzes, 2 in-class exams, and the final exam.

| Item | Percentage |
|--------------------|------------|
| Homework | 10% |
| Quizzes | 10% |
| MATLAB Assignments | 10% |
| Test 1 | 20% |
| Test 2 | 20% |
| Final Exam | 30% |

Homework: Weekly Homework assignments will be posted in my teaching website. Homework is a crucial part of your learning process.

Quizzes: Several pop-quizzes will be given, some are oral quizzes.

MATLAB: Four MATLAB assignments are scheduled. You will need to download MATLAB using the University's Site license <https://softwarelicense.arizona.edu/mathworks-matlab>.

In-class Tests: Two in-class exams are tentatively scheduled for

- Test 1: Monday, September 17.
- Test 2: Friday, October 19.

Final Exam: The final exam is comprehensive, it is scheduled to be on Thursday, December 13.

Incompletes: Must be made in accordance with University policies, which are available at <http://catalog.arizona.edu/policy/grades-and-grading-system#incomplete>

Other Important Information:

- **Students with disabilities:** Contact the Disability Resource Center (520-621-3268) to establish reasonable accommodations. For information on the Disability Resource Center and reasonable accommodations, please visit <http://drc.arizona.edu> . If you have reasonable accommodations, please plan to meet with me by appointment or during office hours to discuss accommodations and how my course requirements and activities may impact your ability to fully participate.
- **Students withdrawing from the course:** Must be made in accordance with University policy <http://catalog.arizona.edu/policy/grades-and-grading-system#Withdrawal>. You may drop the class without a W through **September 2** using UAccess. The class will appear on your UAccess record, but will not appear on your transcript. You may withdraw with a W through **October 28** using UAccess. The University allows withdraws after October 28 but only with the Dean's approval. Late withdraws are dealt with on a case by case basis, and requests for late withdraw without a valid reason may or may not be honored.
- **Threatening Behavior Policy:** The UA Threatening Behavior by Students Policy prohibits threats of physical harm to any member of the University community, including to oneself. See <http://policy.arizona.edu/education-and-student-affairs/threatening-behavior-students>.

Note: Information contained in the course syllabus, other than the grade and absence policy, may be subject to change with advance notice, as deemed appropriate by the instructor.