

MATH 310 - APPLIED LINEAR ALGEBRA

Spring 2019

Instructor: Vahan Huroyan

Webpage: <https://math.arizona.edu/~vahanhuroyan> or <http://vahan.huroyan.com>

Office: Gould-Simpson 721

Regular Office Hours: in GS 721, WF 10:00-11:00,

Tutoring Office Hours: in Mathematics 220, F 2:00-3:00

Email: vahanhuroyan@math.arizona.edu

Lecture: MWF 08:00 – 08:50

Lecture Location: Biological Sciences West, Rm 210.

Course Webpage: <https://vahan.huroyan.com/math310.html>

Textbook:

Applied Linear Algebra second edition, by Peter J. Olver and Chehrzad Shakiban.

Description:

Applications and methods of linear algebra emphasizing vectors, matrices, systems of equations, determinants, eigenvectors and eigenvalues. This course is an excellent introduction to linear algebra for students who are interested in a math minor. It does not satisfy requirements for the math major.

Prerequisites:

MATH 250B, 254 or 355. Must not have taken MATH 313.

Homework:

There will be weekly or biweekly homework (depending on the hardness of the material).

Quizzes:

There will be 6 unannounced pop-quizzes. The one with the lowest score will be dropped.

Exams:

There will be 3 midterms and one final exam Midterm 1: *January 30, 2019*

Midterm 2: *February 27, 2019*

Midterm 3: *April 3, 2019*

Final Exam: *8:00am-10:00am May 8, 2019*

Grading Policy:

Homework (15%) and quizzes (10%), 3 Midterms (total 45%), Final exam (30%). The final grade will be based on this score.

Class Policy:

Regular attendance is essential and expected. No make up exams, quizzes or late submitted homework will be accepted. However, in complex and unusual circumstances, which are beyond your control, a make-up exam may be given on a case-by-case basis. This will require providing a detailed account of the situation and supporting documents. Approval in these cases is at the sole discretion of the instructor and/or the dean of students.

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.).

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>.

Accessibility and Accommodations:

At the University of Arizona we strive to make learning experiences as accessible as possible. If you anticipate or experience barriers based on disability or pregnancy, please contact the Disability Resource Center (520-621-3268, <https://drc.arizona.edu/>) to establish reasonable accommodations.

Code of Academic Integrity:

Students are encouraged to share intellectual views and discuss freely the principles and applications of course materials. However, graded work/exercises must be the product of independent effort unless otherwise instructed. Students are expected to adhere to the UA Code of Academic Integrity as described in the UA General Catalog. See: <http://deanofstudents.arizona.edu/academic-integrity/students/academic-integrity>. The University Libraries have some excellent tips for avoiding plagiarism, available at <http://new.library.arizona.edu/research/citing/plagiarism>.

UA Nondiscrimination and Anti-harassment Policy:

The University is committed to creating and maintaining an environment free of discrimination; see <http://policy.arizona.edu/human-resources/nondiscrimination-and-anti-harassment-policy>.

Academic Honesty:

Lack of knowledge of the academic honesty policy is not a reasonable explanation for a violation.

Absence and Class Participation Policies:

The UAs policy concerning Class Attendance, Participation, and Administrative Drops is available at <http://catalog.arizona.edu/policy/class-attendance-participation-and-administrative-drop>.

The UA policy regarding absences for any sincerely held religious belief, observance or practice will be accommodated where reasonable: <http://policy.arizona.edu/human-resources/religious-accommodation-policy>.

Absences preapproved by the UA Dean of Students (or deans designee) will be honored. See <http://policy.arizona.edu/employmenthuman-resources/attendance>.

Changes to the Course Syllabus:

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. In particular, the dates of midterm exams, the number of exams, and the order in which topics are covered may differ from the dates and arrangement in the tentative weekly schedule.