Math 413/513: Linear Algebra
MOTuWeThFr 10:30 am - 11:45 am.
Recurrent Zoom links are posted on D2L.

Instructor: Dr. Houssam Abdul-Rahman
Zoom Office Hours: Monday, Wednesday, and Thursday - 12:00-12:50 pm, and by appointment.
Email: houssam@math.arizona.edu.
Instructor Homepage: http://math.arizona.edu/~houssam.
Course Website: at http://math.arizona.edu/~houssam/Teaching.html.

Text: Two main textbooks:

Available online: Here

Available online through the University of Arizona Library.

Material to be Covered: We will follow closely the first textbook. The goal is to cover most of Chapters 1-11, this includes the main topics: Vector spaces, linear transformations and matrices, determinants, eigenvalues and diagonalization, bilinear forms, orthogonal and unitary transformations, Jordan canonical form.

Attendance: Students are expected to attend every scheduled class.

Grading Policy: The final grade will consist of Quizzes, two zoom-proctored/take-home exams, and the final exam.

<table>
<thead>
<tr>
<th>Item</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Homework/Quizzes</td>
<td>20%</td>
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<tr>
<td>Test 1</td>
<td>20%</td>
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<tr>
<td>Test 2</td>
<td>20%</td>
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<tr>
<td>Final Exam</td>
<td>40%</td>
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Letter grades will be as following:

\[ A : 100 - 90\% \quad B : 89 - 80\% \quad C : 79 - 70\% \quad D : 69 - 60\% \quad E : 59 - 0\% \]

Homework/Quizzes: Several Quizzes (and a few hw) will be given throughout the term. The lowest Quiz will be dropped.

Tests: Two Zoom-proctors/Take-home exams are tentatively scheduled for

- Friday, May 29.
- Friday, June 19.
**Final Exam:** The final exam is comprehensive, on July 3.

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

**Other Important Information:**

(a) **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](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.

(b) **Students withdrawing from the course:** Must be made in accordance with University policy [http://catalog.arizona.edu/policy/grades-and-grading-system#Withdrawal](http://catalog.arizona.edu/policy/grades-and-grading-system#Withdrawal).

1. You may drop the class without a W through **May 23th** using UAccess (For graduate students: **May 29**). The class will appear on your UAccess record, but will not appear on your transcript.

2. You may withdraw with a W through **June 16th** using UAccess. The University allows withdrawing after June 16 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.

3. **May 29** is the last day to change from pass/fail to regular grading or vice versa with only instructor approval on a Change of Schedule form (For Graduate students: **May 30** with the Instructor’s and Dean’s signature).

4. **June 25** is the last day for students to submit a *Late Change Petition* to their college.

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.