

Introduction to Linear Algebra MA 260-2EA Spring 2023

The class meets on Tuesdays and Thursdays from 2:00pm to 3:15pm in Room UH 4002

Instructor: Dr. Roman Shterenberg

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Office hours: by appointment.

Textbook Howard Anton and Chris Rorres, Linear Algebra, 12th edition. We will cover

- Systems of Linear Equations and Matrices, Sections 1.1 to 1.8
- Determinants. Sections 2.1 to 2.3
- Euclidean Vector Spaces, Sections 3.1 to 3.3
- General Vector Spaces, Sections 4.1 to 4.6
- Eigenvalues and Eigenvectors, Sections 5.1 and 5.2
- Diagonalization, Sections 7.1 and 7.2

Grading policy: Your course grade will be determined from the tests and final exam with the weights: two best of the three midterm tests contribute 30% each, Final Exam - 40%.

Your letter grade will be determined by:

$$A = 88 - 100, B = 75 - 87, C = 62 - 74, D = 50 - 61$$

Important dates:

First day of (this) class: Tuesday, January 10

Test 1: Thursday, February 9 (tentative)

Test 2: Thursday, March 9 (tentative)

Test 3: Thursday, April 13 (tentative)

Spring Break: March 13 to 19

Last day of (this) class: Thursday, April 20

Final exam: Tuesday, April 25, 1:30pm to 4:00pm (in classroom)

- **In-Class Tests.** Three 75-minute tests will be given. At least one week notice will be given for the exact test dates and for the sections of the book to be covered. The worst test will be dropped to take into account possible circumstances (including missed test).
- **Final exam.** Tuesday, April 25, 1:30pm to 4:00pm (in class).
- **Tests and Final.** All tests and the final exam are open book and open notes. Reviews will be provided beforehand. You may use a calculator. You may also use a phone, laptop or a tablet without internet connection (Wi-Fi switched off, airplane mode).
- **Regular class attendance is important and strongly encouraged (but not mandatory).** The instructor will follow the indicated sections of the book (but occasionally include different or additional examples), so if you have to miss a class, study the book thoroughly and ask a fellow student what was covered in class.

Academic Misconduct:

UAB Faculty expects all members of its academic community to function according to the highest ethical and professional standards. Academic dishonesty and misconduct includes, but is not limited to, acts of abetting, cheating, plagiarism, fabrication, and misrepresentation. Students are expected to honor the UAB Academic Code of Conduct as detailed in the most current UAB Policies Guide. Please consult these resources for additional information regarding the specific procedures to be undertaken when a student violates the UAB Academic Code of Conduct.

- <https://www.uab.edu/students/one-stop/policies/academic-honor-code>
- <https://www.uab.edu/engineering/home/students/code-of-conduct#academic>

DSS Accessibility Statement:

UAB is committed to providing an accessible learning experience for all students. If you are a student with a disability that qualifies under Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act, and you require accommodations, please contact Disability Support Services for information on accommodations, registration and procedures. Requests for reasonable accommodations involve an interactive process and consist of a collaborative effort among the student, DSS, faculty and staff. If you are registered with Disability Support Services, please contact DSS to discuss accommodations that may be necessary in this course. If you have a disability but have not contacted Disability Support Services, please call 934-4205 or visit <http://www.uab.edu/dss> or Hill Student Center Suite 409.

Title IX Statement:

The University of Alabama at Birmingham is committed to providing an environment that is free from sexual misconduct, which includes gender-based assault, harassment, exploitation, dating and domestic violence, stalking, as well as discrimination based on sex, sexual orientation, gender identity, and gender expression. If you have experienced any of the aforementioned conduct we encourage you to report the incident. UAB provides several avenues for reporting. For more information about Title IX, policy, reporting, protections, resources and supports, please visit <http://www.uab.edu/titleix> for UAB's Title IX Policy, UAB's Equal Opportunity, Anti-Harassment Policy and Duty to Report and Non-Retaliation Policy.