

Math 2241 - Linear Algebra – Fall 2024

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Office hours: Monday 10:45 - 11:15
Tuesday 1:30 - 2:00
Thursday 10:45 - 11:15
Friday 1:30 - 2:00
And by appointment

Text: *Linear Algebra and Its Applications, Third Edition* by David C. Lay

Catalog Description: Systems of linear equations, vector spaces and subspaces, bases and dimension, linear transformations, eigenvalues and eigenvectors, and inner product spaces.

Course Objectives: This course is intended to introduce the student to a subject which is of vital importance in advanced calculus, abstract algebra and geometry. She will learn to think in the abstract while performing concrete computations.

Help: I urge you to ask questions in class. In so doing, you will help yourself and your classmates. I also hope to see many of you at office hours over the course of the term. Don't forget that you can make an appointment if you can't make my regularly scheduled office hours.

Grading: Your grade will be determined according to the following scheme.

Midterm I	Midterm II	Homework	Final Exam
20 %	20 %	30%	30%

Exams: The tentative dates for the midterm exams are as follows:

Midterm Exam I - Tuesday, September 10
Midterm Exam II - Thursday, October 3

The final exam is self scheduled and will be taken Thursday, October 10 or Friday, October 11. You are expected to be on campus at least one of those days.

Electronics Policy: During class, you may use the calculator app on your cell phone. You may not use a cell phone for any other purpose unless you have made arrangements with me in advance. Cell phones are not permitted in final exam rooms and must be placed in the wicker basket at the front of the room during midterms, and so you will have to arrange for a dedicated calculator for exams. Laptops and tablets may be used to take notes. All other uses of a laptop or tablet are prohibited. Do not use apps or other electronic aids to do homework or exams unless specifically approved by me.

Accommodations: Randolph is committed to providing learning experiences that are accessible for all students and will make reasonable accommodations for individuals with documented disabilities. If you have a learning difference or a disability mental health, medical, or physical impairment contact Larvail Jones, Coordinator of Access Services at ljones@randolphcollege.edu or 947-8132 for more information.

Mobility Impairments and Physical Accessibility: If you have a disability that makes accessing a faculty members office difficult for you, please let them know and they will arrange to meet you at an alternative location.

Academic Honesty: The honor code protects our academic community and the value of a degree from Randolph College. An instance of cheating not only reflects the perpetrator's failure to complete work honestly, but also damages the reputation of every other student at the College. Please uphold both sides of dual responsibility. Approaching a classmate about suspicion of cheating is never easy, but it is an essential part of the system. If you keep silence in the knowledge that rules have been broken, you are guilty of an honor code violation.

It goes without saying that you should never pass off someone else's work as your own. During midterm and final exams, make certain that your work is unassisted and keep your work confidential. For homework pledge problems, using someone else's solution (whether that solution is from a classmate, a solution manual, or any other source) is prohibited. Past or current copies of final exams are intended to be confidential. If you find that they are not, please report it to me right away. They should never be photographed, recorded or transmitted in any way.

I encourage you to work and study together. It can be an effective way to learn mathematics. The admonition to work alone covers homework pledge problems and exam problems only. Feel free to discuss any other problems from any other sources. If you are not certain whether or not something is allowed, please ask.

Homework: Homework is an integral part of this course. Assignments may include practice problems and/or pledge problems. I encourage you to work together on practice problems. You may ask assistance from each other, tutors, or anyone else. Pledge problems must be done alone, though you may ask me for help if you get stuck. Only the pledge problems will be submitted and graded. Assignments will be considered late if not submitted by 10 am on the weekday following the official due date. *You will be penalized at least 10% for a late assignment.*

Tentative Schedule:

Week of	Sections
August 19	1.1, 1.2, 1.3, 1.4, 1.5, 1.6
August 26	1.7, 1.8, 1.9, 2.1
September 2	2.2, 2.3, 3.1, 3.2, 3.3, 4.1
September 9	4.2, 4.3, Midterm I, 4.4, 4.5
September 16	4.6, 4.7
September 23	5.1, 5.2, 5.3, 5.4
September 30	5.6, 5.7, 6.1, 6.2, Midterm II
October 7	6.3, 6.4, 6.5

Mandated Reporting: As instructors, one of our responsibilities is to help create a safe learning environment on our campus. We have a mandatory reporting responsibility related to our role as faculty members. It is our goal that you feel able to share information related to your life experiences in classroom discussions, in your written work, and in our one-on-one meetings. We will seek to keep information you share private to the greatest extent possible. However, we are required to share information regarding sexual misconduct or information about a crime that may have occurred on Randolphs campus with the Colleges Title IX Coordinator, Jaclyn Beard (jbeard@randolphcollege.edu, 434-947-8031). We do this to make sure that you are able to get all the information and support you may need.

The Health Center and Counseling Center staff are not mandated reporters (counselingcenter@randolphcollege.edu). As such they are not required to share information about sexual misconduct with the College and will keep your information private and confidential.