



COURSE SYLLABUS, MATH 590, LINEAR ALGEBRA, FALL 2026

INSTRUCTOR INFORMATION

<u>Name</u>	Dr. Daniel Hernández
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<u>Office</u>	527 Snow Hall
<u>Office Hours</u>	Consult the course website.

COURSE BASICS

<u>Time and location</u>	TuTh 11:00 - 12:15 AM, Wescoe 4071.
<u>Description</u>	Vector spaces, linear transformations, and matrices. Canonical forms, Determinants. Hermitian, unitary and normal transformations.
<u>Prerequisites</u>	MATH 127 or MATH 147, and MATH 290 or MATH 291.
<u>Format</u>	This is a lecture-only, in-person course.
<u>Credits</u>	This is a 3-credit course. According to KU policy , and the federal description of a credit hour, students are expected to spend at least 6 hours a week on this course outside of class.

ELECTRONIC COMMUNICATION

- (1) All electronic communications must occur through official KU email accounts.
- (2) In particular, Canvas messages should not be used to communicate electronically.
- (3) Consult our course website, and your peers, before asking procedural questions.
- (4) Students are expected to communicate semi-formally in all email correspondence.
- (5) The subject line of every message should be precise, and must start with the string "[math-590]". For example, "Subject:[math-590] Question on linear transformations".
- (6) Due to the large volume of emails that I receive, I may not always be able to respond immediately, or even at all. In such situations, I ask that students be resourceful.
- (7) I am unlikely to respond to messages outside of standard working hours.
- (8) I am unlikely to respond to ‘‘last-minute’’ messages.

RESOURCES AND MATERIALS

<u>Course website</u>	https://hernandez.ku.edu/590.html
<u>Textbook</u>	<i>Linear Algebra</i> (4th edition), Friedberg, Insel, Spence.
<u>Canvas</u>	Canvas will be used only to record grades. Instead of Canvas, students should monitor the course website and KU email.

GENERATIVE ARTIFICIAL INTELLIGENCE.

The use of AI tools is forbidden. Students are expected to present work that is their own without assistance from automated tools. Using AI tools for any purposes will be regarded as a violation of the [KU Academic Misconduct Policy](#).

ATTENDANCE AND PARTICIPATION

Students are expected to attend, and actively participate in, all lectures. For information on excused absences, see the [KU Excused Absences Policy](#). Student responsibilities in this context are described in subsection 2.2.4 of that policy.

REQUIREMENTS

<u>Homework</u>	Exercises from our textbook will be assigned after every lecture. These problems are meant to help students develop their problem solving skills, and to test their understanding. However, these problems will not be collected, nor count towards a final grade.
<u>Quizzes</u>	In-class quizzes will be given regularly, and will cover topics from lecture and homework. These should be regarded as pop quizzes.
	<u>Midterm 1</u> Tuesday, October 06 (tentative)
<u>Exams</u>	<u>Midterm 2</u> Thursday, November 19 (tentative)
	<u>Final Exam</u> Friday, December 18 10:30 - 01:00
<u>Missed lectures</u>	Students who miss lecture are responsible for seeking notes from a classmate. We follow the KU Excused Absences Policy for missed quizzes and exams.
<u>Late work</u>	Outside of situations covered by the KU Excused Absences Policy , late work is not accepted.
<u>Extra credit</u>	We offer no extra credit.

LEARNING OUTCOMES

We will cover Sections 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 2.1, 2.2, 2.3, 2.4, 2.5, 3.1, 3.2, 4.1, 4.2 in our textbook, at least. Students will learn about abstract fields, with an emphasis on $\mathbb{R}$ and $\mathbb{C}$; abstract vector spaces and subspaces; operations on subspaces, especially sums and direct sums; linear combinations, spans, and independence; bases and dimension; linear transformations, including their kernels and images, the rank-nullity theorem, and connections with matrices; eigenvalues and eigenvectors; invariant subspaces and minimal polynomials; and diagonalizability.

EVALUATION CRITERIA AND GRADING SCALE

Homework	Quizzes	Midterm 1	Midterm 2	Final Exam
00 %	20 %	25 %	25 %	30 %

A course evaluation will be available to students at the end of the semester.

ACADEMIC INTEGRITY AND PROFESSIONAL CONDUCT

We follow the [KU Academic Misconduct Policy](#). In this context, students are held to the highest standard, and any failure to meet this standard will trigger severe consequences.

CLASSROOM BEHAVIORAL EXPECTATIONS

- (1) Phones, computers, and any other device that may cause a distraction, are forbidden.
- (2) Food and drink in disposable containers are forbidden.

SAC ACCOMMODATIONS

The Student Access Center (SAC) coordinates academic accommodations and services for all eligible KU students. If you wish to request accommodations and have not contacted SAC, please do so as soon as possible. Information about their services can be found at www.access.ku.edu. Please contact me privately in regard to your needs in this course.

ADDITIONAL RESOURCES AND POLICY INFORMATION

Student Resources

- [University Academic Support Centers!](#)
- [Counseling and Educational Support Services](#)
- [The KU Writing Center](#)
- [Religious Observances](#)

University Policies

- [Academic Misconduct](#)
- [Change of Grade](#)
- [Commercial Note-Taking](#)
- [Mandatory Reporting](#)
- [Nondiscrimination, Harassment, and Equal Opportunity](#)
- [Sexual Harassment](#)
- [Student Rights and Responsibilities](#)
- [Racial and Ethnic Harassment Policy](#)
- [Commitment to Integrity and Ethical Conduct](#)
- [KBOR Statement on Free Expression](#)
- [Weapons, Including Firearms!](#)

The [KU Student Affairs Student Resources website](#) provides links to KU Policies and Resources pertaining to academic misconduct, grading policies, harassment and discrimination, diversity and inclusion, mandatory reporting, equal opportunity and affirmative action, and student rights and responsibilities. Please visit the site to familiarize yourself with these policies and resources. Contact your instructor, or Student Affairs directly, if you have questions or concerns about any of these policies and resources.

CHANGES TO THIS SYLLABUS

The course policies described herein are subject to change. Any such changes will be made at the discretion of the instructor, and informed by the best interests of the students. These will be announced during class, and also electronically, via email.