

MATH 3323 Syllabus – Fall 2025

Dr. Dankwah

08/25/2025

Course Information

Course Title: Matrix Algebra

Course Number: MATH 3323

Delivery: Asynchronous (Fully Online)

Instructor: Dr. Dankwah

Email: kodankwah@utep.edu

Office Hours: By appointment

Prerequisites: Calculus II (MATH 1312)

Course Objectives

This course is concerned with matrices and vectors. Upon successful completion, students will:

- Solve and analyze systems of linear equations.
- Understand vector spaces associated with matrices.
- Compute eigenvalues and eigenvectors.
- Utilize both symbolic/numerical and geometrical descriptions of matrices and vectors.

Textbook

Introduction to Linear Algebra, 5th ed., by Johnson, Riess, and Arnold (Chapters 1–4). The textbook is required.

Assignments and Grading

Grades are promptly communicated to students. It is the student's responsibility to keep track of them and compile them. The grades are based on the following:

- Homework: 50%

- Midterm Exams (Two): 30%
- Final Project: 20%

Homework problems will be assigned weekly. You will only learn the material by doing it yourself, not by watching others do it. Mathematics is not a spectator's game.

Final Project Due Date: Wednesday, December 10, 2025 @ 11:59 PM.

This syllabus is subject to changes when necessary.

Visit the UTEP Academic Calendar for Important Dates.

Technology Requirements

Students need access to:

- UTEP email account, web access, and a stable browser (Google Chrome or Mozilla Firefox recommended).
- A computer/laptop with scanner, webcam, and microphone.
- Software: Microsoft Office, Adobe Acrobat Reader, Windows Media Player, QuickTime, and Java.
- If you do not have word-processing software, you can download Word and other Microsoft Office programs (including Excel, PowerPoint, Outlook, and more) for free via UTEP's Microsoft Office Portal.
- **IMPORTANT:** If you encounter technical difficulties beyond your scope of troubleshooting, please contact the UTEP Help Desk, as they are explicitly trained to assist students in technological needs. Please do not contact me for this type of assistance. The Help Desk is much better equipped than I am to assist you!

Course Communication

- **Office Hours:** Conducted via Zoom. Details will be announced on Blackboard.
- **Email:** Use UTEP email with the course number in the subject line. Include your full name and university ID in the body.
- **Discussion Board:** Post questions on Blackboard's Help Board. Respond to peers if possible.
- **Announcements:** Check Blackboard regularly for updates.

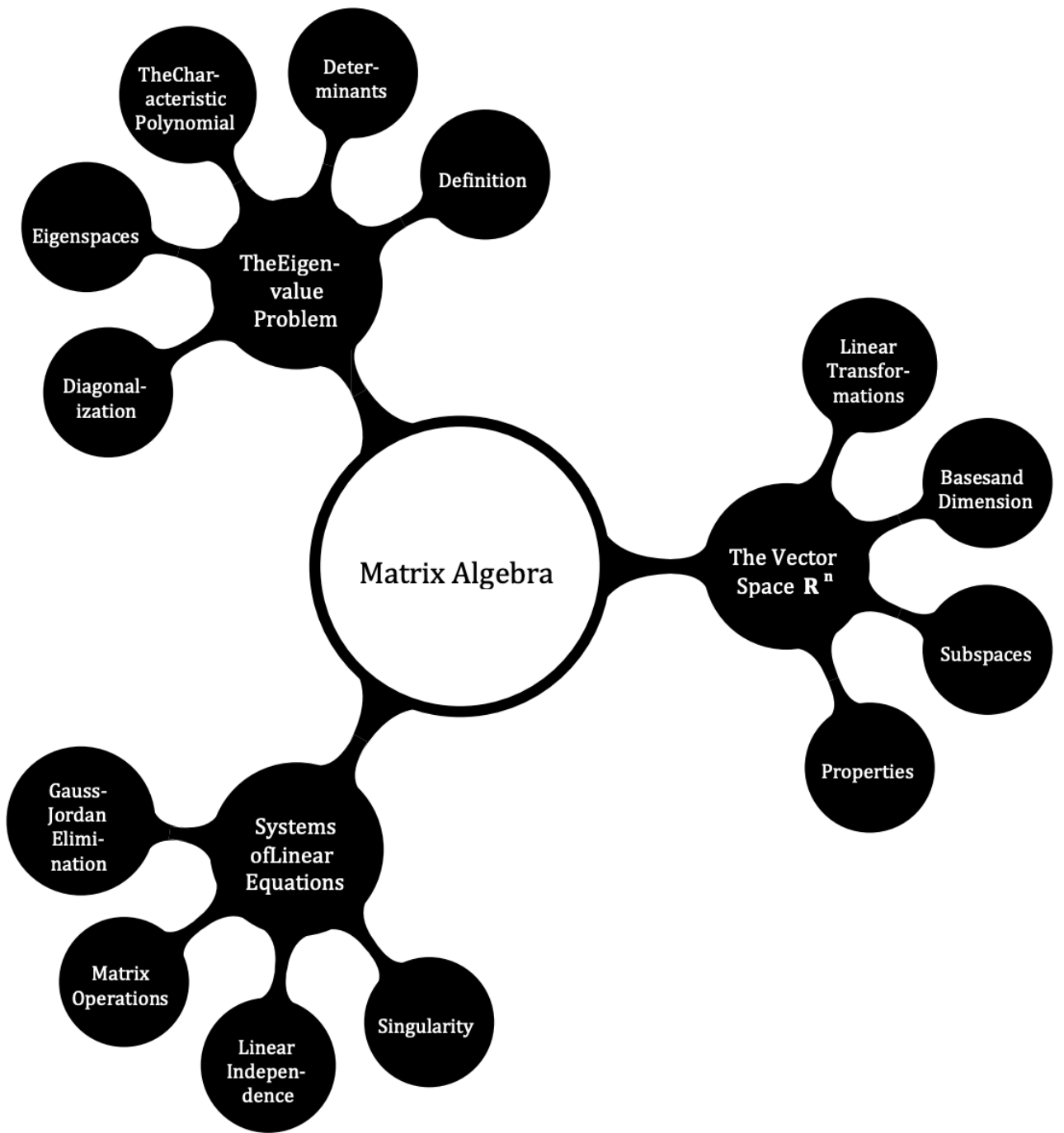


Figure 1: Concept Map

Policies

Attendance and Participation: Participation includes reading/viewing course materials, participating in discussions, attending collaborative sessions, and completing activities on time.

Deadlines and Late Work:

- Homework is due Saturdays at 11:59 PM. Late work is not accepted without an excused reason.
- Midterm exams are timed and administered, if online, using the Lockdown Browser.
- Make-up work is allowed only in documented emergencies.

Academic Integrity: Cheating, plagiarism, and collusion are prohibited. Violations will be reported to the Office of Student Conduct.

Netiquette: Online communication should be respectful and professional. Harassment, inappropriate postings, or failure to address others' ideas respectfully will not be tolerated.

Accommodations

Students with disabilities should contact the Center for Accommodation and Support Services (CASS) at cass@utep.edu or call 915-747-5148.

Additional Policies

Make-up Work: Allowed only in emergencies with proper documentation. Make-up assignments may differ in format and may incur penalties.

Incomplete Grade Policy: Incomplete grades are granted only in exceptional circumstances after completing at least half the course requirements. A contract outlining work completion with deadlines will be established.

Test Proctoring Software: Midterms will use Respondus Lockdown Browser and Monitor when taken online. Ensure familiarity with these tools before the first test.

Plagiarism Detection: SafeAssign may be used to check the originality of assignments.

Videos and Materials: The use of external videos will enable you to have access to uploaded videos on YouTube, which will be helpful in your learning. Our use of such technology and all class materials are governed by the Federal Educational Rights and Privacy Act (FERPA) and UTEP's acceptable-use policy.

Course Resources

- UTEP Library: Access journals and eBooks.
- Math Tutoring Center (MaRCS): Assistance with Math coursework.

- University Writing Center: Support for writing and formatting assignments.
- Military Student Success Center: Support for military-affiliated students.
- Help Desk: Technical assistance with UTEP systems.
- Counseling and Psychological Services: Provides a variety of counseling services as well as career and disability assessments.
- RefWorks: A bibliographic citation tool; check out the RefWorks tutorial and Fact Sheet and Quick-Start Guide.