Section No.: 13189
Instructor: Garret J. Etgen
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Prerequisites:
Graduate standing

Course Description:
Solving Linear Systems of Equations, Linear Maps and Matrix Algebra, Determinants and Eigenvalues, Vector Spaces, Linear Maps, Orthogonality, Symmetric Matrices, Spectral Theorem

Text:
The text material is posted on Blackboard Learn.

Syllabus:

- Chapter 1: Preliminaries
- Chapter 2: Solving Linear Equations
- Chapter 3: Matrices and Linearity
- Chapter 4: Vector Spaces
- Chapter 5: Determinants and Eigenvalues
- Chapter 6: Linear Maps and Changes of Coordinates
- Chapter 7: Orthogonality
- Chapter 8: Matrix Normal Forms
Assistance:
There will be weekly Q&A sessions to answer questions about the course material. While the primary focus will be on the Assignments, there will also be time for more general questions on concepts and techniques. See below for information on the assignments. Immediate help is also available via e-mail.

Evaluation:
Students will be evaluated on:

1. Written homework assignments (20%)
   Homework assignments will be graded and returned.

2. Examinations (80%)
   There will be two examinations during the semester, one at mid-term and one at the end of the course (see the course calendar for dates). The exams will be weighted equally.