Section No.: 20623
Instructor: Garret J. Etgen
Office No.: 695 PGH
Phone: 713-743-3510
e-mail: etgen@math.uh.edu

Prerequisites:
Graduate standing

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

Text:
The text material is posted on Canvas.

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
**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.