

Math 112 Course Description

This is an introductory course on Linear Algebra. In this course, among other things, you will learn matrix algebra and its applications.

Topics to be covered are:

Matrix operations

- Binary operations on matrices
- Unitary operations on matrices

Linear systems

- Systems of linear equations
- Rank and systems of linear equations
- Systems with a unique solution, no solutions
- Systems with infinitely many solutions

Linear transformations

- Linear transformations
- Affine transformations

Eigenvalues and Eigenvectors

- Eigenvalues
- Eigenvectors
- Quadratic forms