

MAT245 : Linear Algebra

A first course in the study and analysis of linear systems and their applications in mathematics, engineering, computer science, business, economics, and other fields involving large multi-variate models of real world phenomena. Topics include: matrices, determinants, vectors in 2-dimensional space and 3-dimensional space, vector spaces, independence, basis, rank, linear transformations with matrix representation, eigenvalues and eigenvectors, applications to differential equations.

Credits 3

Prerequisites

A grade of C- or higher in [MAT240](#): Calculus I or [MAT180](#): Applied Calculus

Semester Offered

Fall