

MATH 322: Linear Algebra 1 (G2) 4 s.h.

A rigorous introduction to linear algebra. Includes systems of linear equations, matrix algebra, determinants, vector spaces, inner product spaces geometry in \mathbb{R}^n , linear transformations, orthogonal transformations, eigentheory and diagonalization.

Prereq or coreq: C- or higher in MATH 311; MATH 310 recommended. Credit will not be given for this course and MATH 304. MATH 322 is intended for mathematics majors and is more theory and proof-based. MATH 304 is more application oriented and intended for computer science or data science majors.