

MAT 336: Modern Geometry

This course is a study of axiomatic systems for affine geometries, translations, dilations, rotations, reflections, and linear transformations, and affine geometries over rings. Topics included in this course are proofs, trigonometry, periodic phenomena, identification, classification into categories, visualization, representation, Euclidean affine geometry, congruence (symmetry) and similarity, measurement, and conics; the course uses formulas to find perimeter, area, surface area, and volume and to solve problems involving geometry, trigonometry, and calculus.

Credits: 3

Prerequisites: MAT 331.

Program: **Mathematics**