

# MAT335: Advanced Geometry

A rigorous but non-axiomatic treatment of advanced geometry on the Euclidean plane, from two or more points of view. Possible viewpoints include synthetic geometry, vector geometry, and geometry using complex numbers. Usually additional topic(s) will be covered, with such topics typically being drawn from axiomatic development of elementary geometry, geometry in higher dimensions, non-Euclidean geometries, and historical studies, especially geometry in non-Western cultures.

**Credit Hour(s):** 3

**Prerequisites:**

MAT125

**Department:** Mathematics, Physics, and Computer Science

**Semester Offered:**

Fall (odd)