

TOPOLOGY AND GEOMETRY (MTG)

MTG3212 MODERN GEOMETRY (3.00 Credits)

A course for math and math education majors. Geometry is a major foundation of our mathematical understanding of the world, and this course will explore both its breadth and depth. This course rigorously examines the axioms and theorems of Euclidean geometry and the non-Euclidean geometries. The coordinate and translational geometries will be treated as well. This course is highly theoretical and proof-intensive. Thus some background with constructing direct proofs and proofs by contradiction is a necessary prerequisite to enroll in this course.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

Complete all the courses in the following option:

- Prerequisite: MAD2104 (minimum grade: C)