

# MAT 3500: Modern Algebra I

Topics selected from groups and subgroups, cyclic groups, permutation groups, isomorphisms, direct products, cosets and Lagrange's Theorem, normal subgroups and factor groups, group homomorphisms, the Fundamental Theorem of Finite Abelian Groups, rings, fields.

**Credits:** 3

**Prerequisites:**

MAT 2600

MAT 2705

MAT 2600 :D- and MAT 2705 :D-

**Program:** [Mathematics and Statistics](#)