

MAT 563 – Abstract Algebra Fall 2023

Instructor: Gil Moss

Isn't it great when you ask for a little and get a lot? That's group theory! So many properties, so little structure. This course is an introduction to the basic theory of groups, with an emphasis on doing a lot of examples. We'll dig into groups by realizing them as symmetries of vector spaces (representation theory). After we've studied groups for a while, we'll add a bit more structure and study rings. These tools will equip you for further study in many fields, in including number theory, algebraic geometry, algebraic topology, and more!

