## Math 506A–Modern Algebra Spring 2025

## MWF 10:30, PDL C-38

Instructor: Monty (or William) McGovern, PDL C-450, mcgovern@math.washington.edu

Office Hours: Th 9:30 and by appointment.

**Text:** Abstract Algebra, by Dummit and Foote (3d ed., Wiley, 2004) (recommended), together with other books (see below).

**Prerequisite:** Math 505, the equivalent, or instructor permission.

What to Expect: This is the third quarter of the first-year graduate algebra sequence. I will be covering commutative algebra and elementary algebraic geometry, following the treatment in Chapter 15 of Dummit and Foote, plus some supplementary material from Atiyah and MacDonald, Hartshorne's Algebraic Geometry, Fulton's book Young Tableaux, (discussed in the fall), and Eisenbud's Commutative Algebra with a View to Algebraic Geometry. Homework will be due every Friday and submitted on Gradescope. The course grade will be based 50% on homework and 50% on a final exam. I will post notes for all lectures on Canvas.