Math 506A–Modern Algebra

Spring 2017

MWF 9:30   PDL C36

Instructor: Monty (or William) McGovern, C-450 Padelford, phone 543-1149, email mcgovern@math.washington.edu.

Office Hours: drop in, or by appointment.

Websites: http://www.math.washington.edu/˜mcgovern/506sp17 (lectures, HW assignments), http://www.math.washington.edu/˜mcgovern/506.html (info, schedule)

Grader: Sid Mathur, ART 336, email sidmath@uw.edu, office hours Th 1:30-3:30 in lounge

Text: none this quarter, but we will mostly follow Eisenbud's text "Commutative Algebra with a View toward Algebraic Geometry". Lectures will be posted on my homepage (506sp17 address above), NOT the .html webpage

Prerequisite: Math 505 or the equivalent.

Grading and Exams: Your grade will be based on weekly homework, collected on Friday (counting 40%) and a final exam (counting 60%). I cannot overemphasize the importance of doing homework in the course. It is the only way to learn mathematics.

What to Expect: We will begin with completions of commutative rings with respect to ideals and cover various topics among primary decompositions, Artinian rings, flat families, Grobner bases, and computations.