

MAS 7396: Advanced Topics in Algebra I

Fall 2016

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Class meets MWF 1:55-2:45 in Little 235

Office hours: Mondays and Wednesdays 10:25-11:40, or by appointment.

Textbooks

Algebraic Curves: An Introduction to Algebraic Geometry by W. Fulton

Algebraic Geometry by James Milne

Syllabus

This course is an introduction to algebraic geometry. Algebraic geometry is the study of algebraic sets, which are the solution sets of collections of polynomial equations. The basic objects we will study are affine and projective varieties, which are algebraic sets of a special type. Students enrolled in the course should have a solid background in abstract algebra, preferably from the 6000 algebra sequence.

Homework

Homework problems will be assigned and collected. Although you are encouraged to discuss these problems with your classmates, all work you turn in for grading should be your own. In particular, no collaboration is allowed on final write-ups of solutions.

Grading

Grades will be based on the assigned homework.