Math 80620 Syllabus, Spring 2017

Course title: Introduction to Algebraic Geometry II

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Textbook: *Algebraic Geometry* by Robin Hartshorne.

Course Description

This course will be the second part of a year-long sequence in Algebraic Geometry. The plan is to cover the basic theory of sheaf cohomology on schemes (Chapter III of the textbook), as well as touch on some applications to the theory of curves and surfaces (Chapters IV and V). The main prerequisite is the theory of schemes, as covered in the first part of the course (Chapter II of the textbook).

Homework

The course grade will be based entirely on homework. You are encouraged to work in small groups, but individual submissions are also welcome.