MATH 511-D1
Introduction to Algebraic Geometry
Spring 2016
SYLLABUS (last modified 2/28/16 to include change of midterm date)

Time and place: MWF 11:00–11:50, 341 Altgeld Hall

Instructor: Sheldon Katz

Office and hours: Wednesdays at 2 and Thursdays at 11, 301 Altgeld Hall, or by appointment

Instructor contact information: 265-6258, katz@math.uiuc.edu

Prerequisite: Math 500, Abstract Algebra I


Course website: http://www.math.uiuc.edu/~katz/class/s16/511/

Course Description: This comps course provides an introduction to classical algebraic geometry. The material will prepare interested students to go on to work towards research in Algebraic Geometry and related areas including number theory, algebraic combinatorics, logic, and complex geometry. Chapters I–III of the text will be covered. Supplementary material will be provided to unify the treatment of varieties.

Lectures will parallel the topics in the text but the treatment will not always be the same. In particular, as the semester progresses, an increasing amount of detail will be omitted from the lectures. Students are advised to attend the lectures, read the book, and stay on top of the homework. Selected homework problems will be graded. Homework is expected to be turned in by the due date. Very late homework will neither be accepted nor graded (more than a week is very late). There may be a grade penalty associated with late homeworks, particularly if it happens more than once.

Grading:

- Homework 50%
- Midterm 20%
- Final 30%

The midterm will be given in class on Friday, March 4. The final will be 1:30–4:30pm, Wednesday, May 11.