

Classical Algebraic Geometry

Math 681

Fall 2017

Lecture: MWF 9:00–9:50, 107 Peterson Hall
Instructor: Nick Addington
Office: 208 Fenton Hall
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Web Page: <http://pages.uoregon.edu/adding/courses/681/>
Text: Joe Harris, *Algebraic geometry: a first course*

Reading. I will assign reading from the text. On Sundays, submit a *short* summary of what you read, and one or more questions that you would like addressed in lecture.

Writing. Choose one problem a week from the book. I encourage you to work together, but in that case don't all do the same problem. Of course the writing must be your own. On Wednesdays, submit a PDF of your solution through Canvas; then you'll be assigned two of your colleagues' homeworks to give feedback on; then you'll submit a revised version of your homework based on your colleagues' feedback.

Learning outcomes. You will learn to say “blow-up,” “generic,” and “point at infinity” confidently and correctly, and to draw \mathbb{CP}^1 as a line rather than a sphere.