

Algebraic Geometry I

Math 681

Fall 2025

Lecture: MWF 10:00–10:50, 260 Tykeson Hall
Instructor: Nick Addington
Office: 208 Fenton Hall
E-mail: adding@uoregon.edu
Web Page: pages.uoregon.edu/adding/courses/681
Text: Notes by Geir Ellingsrud and John Christian Ottem,
linked from Canvas and from my web page.

Reading. I'll assign reading from Ellingsrud and Ottem's notes. You'll send me questions, either through Canvas or by email. I'll either send you an answer or (if time allows) address the question in lecture.

Writing. Read all the problems in the chapter and write up a solution to at least one of them. If you work in a group (which is fine), say who you worked with, and don't all of you write up the same problem.

Grades. Since this is a post-qual course, I'm not going to require you to work hard, but of course you'll get out what you put in. Here's the grading scheme:

A: Attended regularly, did all the reading and homework.
B–: Attended two days a week, minimal reading or homework.
In between: In between.
Less: Less.

If you're taking the course pass/fail, note that a B– counts as a pass.

Learning outcomes. The successful student 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.