

ALGEBRAIC GEOMETRY I
MATH 243A • WINTER 2017
MWF 12–1, SURGE 284

- Instructor: Carl Mautner
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- Office hours: ?? or by appointment
- Class website: <http://www.math.ucr.edu/~mautner/W17ag>

Course objectives: Affine Algebraic Sets, Projective Algebraic Sets, Sheaves and Algebraic Varieties, Dimension, Tangent Spaces and Singularities, Bezout's Theorem, and more if time allows!

Text: *Algebraic Geometry: An Introduction* by Daniel Perrin. (N.B. The book can be accessed from any computer on the UC network at:
<http://link.springer.com/book/10.1007%2F978-1-84800-056-8>.)

Grading: The grade will be based on homework assignments.
Any instance of cheating may result in a failing grade for the assignment or course.

Homework: Homework will generally be assigned over the course of the week and due the following Wednesday. A list of the homework problems will be kept on the webpage.

Collaboration: You are encouraged to discuss homework problems with other students. However, you should think about the problems yourself before discussing them with others and the final write-up of any solution should be your own. Copying other students' solutions is not allowed. For each question on the problem set, I ask that you write a list of everyone with whom you collaborated on that problem. If you did not collaborate with anyone, please explicitly write, "No collaborators."