

ALGEBRA II
spring 2012
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We will continue our introduction to Algebraic Geometry with connections to Number Theory. We will rapidly review the 2011 fall semester class (Schemes, Projective schemes, Picard group) and go more deeply in the theory of Algebraic Curves and Algebraic Surfaces (Duality and Riemann Roch theorem).

Books:

Hartshorne Algebraic Geometry

Shafarevich Basic Algebraic Geometry

+my notes Basic Arithmetic Geometry on my web page