

FALL 2015 ALGEBRA II CLASS

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This course will be an introduction to Algebraic Geometry and a comparison to Algebraic Number Theory. We will try to treat in parallel function fields and number fields.

The topics:

- Schemes
- Cohomology of coherent sheaves
- _The Jacobian and the Class group
- Riemann Roch Theorem for Algebraic curves
- Function fields and Number fields

The bibliography:

- R. Hartshorne "Algebraic Geometry" Springer
- "Arithmetic Geometry" My notes in English and French on my web page