

ALGEBRAIC GEOMETRY

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- Affine and Projective varieties.
- Ideals of varieties, components, dimension.
- Regular and rational maps.
- Hilbert functions.
- Families and parameter spaces.
- Grassmannians, determinantal varieties, quotients.
- Projections and Secant varieties.
- Tangent spaces and tangential conditions.

Text: Joe Harris, Algebraic Geometry - a First Course, Springer Graduate Text in Math 133.