Algebraic Geometry

Garrity, T., 2004, “Recommended resources in algebraic and differential geometry”, chapter 8, p. 165-190, in Kristine Fowler, ed., 2004, Using the mathematics literature, Marcel Dekker. —This chapter is an annotated bibliography.

**Thomas Garrity’s list of introductory undergraduate texts**

Bix, R., 1998, Conics and cubics: a concrete introduction to algebraic curves, Springer


Reid, M., 1988, Undergraduate algebraic geometry, Cambridge University Press

Smith, K. et al., 2000, An invitation to algebraic geometry, Springer

**Thomas Garrity’s list of introductory graduate texts**

Fischer, G., 2001, Plane algebraic curves, AMS

Fulton, W., 1989, Algebraic curves: an introduction to algebraic geometry, Addison-Wesley

Griffiths, P. & Harris, J., 1978, Principles of algebraic geometry, Wiley

Harris, J., 1995, Algebraic geometry: a first course, Springer

Hartshorne, R., 1977, Algebraic geometry, Springer

Kirwan, F., 1992, Complex algebraic curves, Cambridge University Press

Miranda, R., 1995, Algebraic curves and Riemann surfaces, AMS

Mumford, D., 1975, Curves and their Jacobians, University of Michigan Press

Mumford, D., 1995, Algebraic geometry I: complex projective varieties, Springer


Shafarevich, I. R., 1994, Basic algebraic geometry, 2nd ed., Springer

Ueno, K., 1999, Algebraic geometry 1: From algebraic varieties to schemes, AMS

Ueno, K., 1999, Algebraic geometry 2: Sheaves and cohomology, AMS

Ueno, K., 2003, Algebraic geometry 3: Further study of schemes, AMS
**Algebraic Geometry**

**Organizer recommendations**

**Workshop 1: Connections for women: Algebraic geometry and related fields, 1/22-24/2009**

Billey, S. & Lakshmibai, V., 2000, Singular loci of Schubert varieties, Birkhäuser


Kenschaft, P. C., 2005, Change is possible: stories of women and minorities in mathematics, AMS


Murray, M. A. M, 2000, Women becoming mathematicians: creating a professional identity, MIT Press

Smith, K. et al., 2000, An invitation to algebraic geometry, Springer

Thomas, R. R., 2006, Lectures in geometric combinatorics, AMS

**Workshop 2: Classical algebraic geometry today, 1/26-30/2009**

Auroux, D. et al., 2008, Symplectic 4-manifolds and algebraic surfaces, Springer

Ebeling, W., 2007, Functions of several complex variables and their singularities, AMS

Ginzburg, V., ed., 2006, Algebraic geometry and number theory: in honor of Vladimir Drinfeld's 50th birthday, Birkhäuser


Hibi, T., ed., 2007, Affine algebraic geometry, Osaka University Press

Huybrechts, D., 2006, Fourier–Mukai transforms in algebraic geometry, Clarendon

Neeman, A., 2007, Algebraic and analytic geometry, Cambridge University Press


Tommasi, O., 2005, Geometry of discriminants and cohomology of moduli spaces, Radboud Universiteit
More books by workshop and program organizers and speakers

Debarre, O., 2005, Complex tori and Abelian varieties, AMS

Eisenbud, D. & Neumann, W., 1985, Three-dimensional link theory and invariants of plane curve singularities, Princeton University Press


Eisenbud, D. & Harris, J., 1999, The geometry of schemes, Springer

Eisenbud, D., 2004, Commutative algebra with a view toward algebraic geometry, Springer

Eisenbud, D., 2005, The geometry of syzygies: a second course in commutative algebra and algebraic geometry, Springer

Fulton, W., 1984, Intersection theory, Springer

Fulton, W., 1984, Introduction to intersection theory in algebraic geometry, AMS

Fulton, W. & Harris, J., 1991, Representation theory: a first course, Springer

Fulton, W., 1993, Introduction to toric varieties, Princeton University Press

Fulton, W., 1997, Algebraic topology: a first course, Springer

Harris, J. & Morrison, I., 1998, Moduli of curves, Springer

Kollár, J. with the collaboration of D. Abramovich et al., 1992, Flips and abundance for algebraic threefolds: a summer seminar at the University of Utah (Salt Lake City, 1991), Société Mathématique de France


Kollár, J., 1996, Rational curves on algebraic varieties, Springer


Kollár, J., ed., 1997, Complex algebraic geometry, AMS, Institute for Advanced Study


Lazarsfeld, R., 2004, Positivity in algebraic geometry, Springer

Vakil, R.; Kelly, T., illus., 1996, A mathematical mosaic: patterns & problem solving, Brendan Kelly