

Welcome to PMATH 464/764 Algebraic curves!

Topics include but not limited to: Affine varieties, Plane curves, Intersection Multiplicity, Projective varieties, Theory of divisors.

Textbook: Fulton's [Algebraic Curves]. Available online at http://xahlee.info/math/i/algebraic_geometry_by_william_fulton_73219.pdf.

Prerequisite: One course in Rings and Fields required. One course in (400-level) commutative algebra and (300-level) point-set topology recommended.

Lecture notes will be posted below.

Class time: Tu Th 1:00 - 2:20 at QNC 1506.

Office hours: Tentatively Monday 1:00 - 3:00 at MC 5338 or by email x46wang@uwaterloo.ca. I am usually in my office in the afternoon.

Online forum: Piazza piazza.com/uwaterloo.ca/winter2018/pmath464.

Homeworks: Generally bi-weekly, submitted through Crowdmark. Collaboration strongly encouraged.

Midterm: Take-home, due after Reading week.

Final: Depending on enrollment, might be written, might be presentation.