



SPRING 2014
MATH 211A (3 units)
GEOMETRY OF
PROJECTIVE PLANES
TTH 4:30 – 5:45 a.m. (MH 234)

Professor Roger Alperin

Prerequisites: Math 112 or Math 115 or
Instructor Consent

This basic course in projective geometry will include:

1. An in depth discussion of projective planes
2. The fundamental theorems of projective geometry
3. Conics and their pencils
4. Elementary aspects of quadratics
5. Desarguesian and non-Desarguesian planes including the characterization of Moufang planes (following Hall)
6. Elementary aspects of algebraic geometry