



**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 quadrics
5. Desarguesian and non-Desarguesian planes including the characterization of Moufang planes (following Hall)
6. Elementary aspects of algebraic geometry