Senior Research Project

Graduation Requirement for Math Majors:

Choice A) Fulfill a minor (15-18 hours) in another discipline

Choice B) Capstone: Research Project with a professor (Course: MATH 3396/ MATH 4396)

Getting Started

1) See what interests you, or to get ideas: look for professors that research topic(s) that interest you (look at their website, their CV, or just ask them)

2) Tell the professor your interest in working with them for the project

3) Fill out a General Petition Form and have the professor sign it

4) Enroll in Math 3396

What is Algebraic Geometry?

1) Algebraic Geometry is initially a study of systems of polynomial equations over a field k.

2) Includes Complex Analysis, Topology, and some Number Theory

My Experience (So Far...)

1) Review of material that will be mentioned in Algebraic Geometry (Material from MATH 3330 such as Rings, Fields, Integral Domains, Ring of Polynomials, Ideals, etc.)

2) Understand fields different from $\mathbb{Q}, \mathbb{R}, \text{ and } \mathbb{C}$

3) Since Algebraic Geometry involves systems of polynomial equations over a field k, I will be investigating systems of equations over the field , $k = \mathbb{Z}_n$ where n is prime

Questions?