MAST 699 (MAST 833), Sec. G  
Topics in Algebra – Algebraic Geometry  
Fall 2023

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Office Hours: By appointment.

Class Schedule: Tuesdays and Fridays, 9:00-11:00 AM. The term will be 12 weeks in length, with the midterm break from Tuesday, October 10th to Sunday, October 15th. Monday, October 9th, the university will be closed due to Thanksgiving Day.

Textbook: No textbook.

Topics: The course will develop the main theme of schemes, following chapter II of Hartshorne’s book Algebraic Geometry. We will study sheaves on a topological space, affine schemes (we attach to any commutative ring with identity a pair consisting of a topological space and a sheaf of rings on it, called affine scheme) and finally schemes, which are pairs consisting of a topological space and a sheaf of rings on it which locally are isomorphic to an affine scheme. We’ll study the properties of schemes and many examples.

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