

Instructor: William (Riley) Casper, Lockett 108, wcasper1@lsu.edu

Office Hours: TBA.

Course Webpage: http://www.math.lsu.edu/~wcasper1/group_schemes.html

Textbook: The material from this course will be presented mostly following

- Algebraic Groups by J.S. Milne
- Online notes: “Basic Theory of Affine Group Schemes” by J.S. Milne

Prerequisites: Students should understand some basic ideas from commutative algebra, such as those generally found in a first year algebra course. Additionally, a basic familiarity with the language of algebraic geometry and some category theory would be useful.

Classroom Expectations: Students in this class have the following expectations:

1. attend class daily, participate and ask questions
2. preform required reading / in-class presentations
3. complete weekly homework assignments

Final grade in the class will be based on homework and classroom participation.

Homework: Students should expect weekly homework assignments, with each homework set due the next week. Collaboration with other students is encouraged, though each student should turn in their own (non-identical) written solutions. Use of reference to materials outside the textbook materials mentioned above is okay. However, collaborations with other students or application of external reference materials to problem sets must be explicitly acknowledged on the homework turned in. Moreover, please resist the temptation to google/stackexchange/whatever specific problems.