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MAS 7396 – Advanced Topics in Algebra

- Instructor: Dr. Richard Crew, Little Hall 404
- Office Hours TBA
- email: rcrew@ufl.edu
- Classroom and meeting time: Little Hall 205, MWF 7

Course Description

This course is an introduction to algebraic geometry. This semester we will cover the basic theory of schemes, coherent sheaves and their cohomology. The sequel in the spring will be devoted to the study of algebraic curves, surfaces and abelian varieties. We will use two textbooks:

- Hartshorne, *Algebraic Geometry* (Springer)
- Mumford and Oda, *Algebraic Geometry II* (Hindustan Book Agency)
- Other resources may be announced from time to time. Keep looking at this space.

Prerequisites

MAS 6331-2 or instructor approval. The following topics from that course will be particularly important: tensor products, projective and injective modules, basic commutative algebra and category theory.

Course Format and Grading

Grades will be based on periodic homework assignments. Final letter grades will be assigned in the usual way: A, 91%-100%; B, 81%-90%; C, 71%-80%; D, 61%-70%; E, 60% or below. This scale may be changed later on.

Course Policies

- The student should be familiar with the University's Academic Honesty Policies
- Attendance will not be taken, but it is the student's responsibility to attend classes, and to get notes for the lectures if a class must be missed. This policy is consistent with university regulations on attendance.

Related Links

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Makeups for exams must be arranged in advance, except in the case of a documented medical emergency. Acceptable reasons for missing an exam are serious family emergencies, special curricular requirements of other units of the University, military obligations, religious holidays, severe weather conditions, or court-imposed legal obligations

- Students requiring accommodation for disabilities must make arrangements through the Disability Resource Center.
- Students are expected to provide feedback on the quality of instruction by completing online evaluations. Typically this process takes place during the last weeks of the semester. The results of the evaluations are available when they are tabulated.
- Please silence your cell phones.

Metadata

This web page is the authoritative source for the syllabus and course requirements, and supersedes all previous versions.



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