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Research

MAS 6332 –
Algebra 2 – Spring
2024

MAP 4305/5304 –
Intermediate
Differential
Equations – Spring
2024

Homological
Algebra Seminar
(Summer 2021)

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College of Liberal Arts
and Sciences

Mathematics
Department

University of Florida

MAS 6332 Spring 2024 – Algebra 2

- Instructor: Dr. Richard Crew
- Office hours: MW4 in Little 404
- Class Meeting Time: MWF3 in Little 205
- email: rcrew@ufl.edu

Course Description

This is the second semester of a two-semester sequence intended to prepare students for the Mathematics Department Ph.D. exam, and for advanced work in algebra and related subjects. The prerequisite is MAS 5311–12 and MAP 6331, or an equivalent courses at another university.

The second semester will cover: nilpotent groups, projective and injective modules, tensor products and flat modules, multilinear algebra, localization and local rings, associated primes and primary decomposition, discrete valuation rings, Dedekind domains, integrality, ideal theory of noncommutative rings, semisimple algebras and central simple algebras.

There is no fixed text for this course. Lectures will be based on the following sources:

- Dummit & Foote, *Abstract Algebra*
- Lang, *Algebra*
- Hungerford, *Algebra*

Other sources will be used from time to time.

Course Grades

The course grade will be based entirely on periodically assigned homework sets. These will be announced in class but you should also look for them on the course CANVAS page. Homework is due in class on the assigned date and late homework will not be accepted. Allowance however will be made for exceptional events such as severe illness or injury to yourself or a close family member, curricular requirements of other University Units, court-ordered appearances, jury duty or compulsory military duty.

Final letter grades will be assigned in the usual way: A, 90% or above; B, 80-89%; C, 70-79%; D, 60-69%; E 59% or below.

Attendance will not be recorded but you will want to attend every lecture as there is no guarantee that what I talk about is in any book. If you must miss a class, try to get notes from another student. I do not always write up notes for the lectures. I am usually available for help outside of office hours, at least during MWF.

Other Course Policies

Honor pledge. UF students are bound by The Honor Pledge which states, “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: “On my honor, I have neither given nor received unauthorized aid in doing this assignment.” The Honor Code specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor.

Diversity. The Mathematics Department is committed to diversity and inclusion of all students. We acknowledge, respect, and value the diverse nature, background and perspective of students and believe that it furthers academic achievements. It is our intent to present materials and activities that are respectful of diversity: race, color, creed, gender, gender identity, sexual orientation, age, religious status, national origin, ethnicity, disability, socioeconomic status, and any other distinguishing qualities.

Accommodation for disabilities. Students requiring such accommodations should connect with the Disability Resource Center. This class supports the needs of different learners; it is important for students to share their accommodation letter with their instructor and discuss their access needs as early as possible in the semester.

