

**MATH 6303 – Modern Algebra II – Spring 2014
Syllabus**

Instructor: Dr. Gordon Heier

Contact Information:

Office: 666 PGH

Office Hours: TTh 4pm-5pm, or by appointment

Email: heier@math.uh.edu

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Lecture: TTh 2:30pm - 4pm in SEC 105

Prerequisites: Math 6302 or consent of the instructor

Exams: Midterm Exam: March 20, in-class (subject to change)

Final Exam: May 6, 2pm-5pm in SEC 105 (subject to change)

Text: *Abstract Algebra* by David Dummit and Richard Foote, 3rd Edition

Homework in the form of problem sets will be assigned on a regular basis and will be due as described on each set. Late homework will not be accepted.

Attendance: Attending classes and exams is mandatory for all students. Missing class makes a student liable to missing important information. Substantial documentation is necessary to receive any kind of excuse or make-up privilege.

Grades: The homework and midterm exam will each account for 30 percent of your grade, the final exam for the remaining 40 percent.

Disability: If you think or know that you have a disability that needs special accommodation, please see me at the beginning of the semester so that the proper steps can be taken.

Academic Dishonesty will not be tolerated and dealt with appropriately.

Course Content: This is the second course in the two course sequence Math 6302-6303 which covers the material relevant for our departmental Preliminary Examination in Algebra.

Topics likely to be discussed are: polynomial rings (remainder of Ch. 9), field theory (Ch. 13 and some of Ch. 14), commutative rings and algebraic geometry (Ch. 15). A few additional topics might also be covered, depending on time and audience interest.