

**MATH 6303 – Modern Algebra II – Spring 2016
Syllabus**

Instructor: Dr. Gordon Heier

Contact Information:

Office: 666 PGH

Office Hours: M 4:30pm-5:20pm, or by appointment

Email: heier@math.uh.edu

Web: www.math.uh.edu/~heier and www.math.uh.edu/~heier/teaching.html

Lecture: MW 1pm-2:30pm in MH 138

Prerequisites: Math 6302 or consent of the instructor

Exams: Midterm Exam: Monday, April 4, in-class (subject to change)

Final Exam: Monday, May 9, 2pm-5pm in MH 138 (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 will account for 20 percent of your grade; the midterm exam will account for 30 percent of your grade; the final exam for the remaining 50 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 (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.