

Syllabus for Math 361, Honors Algebra III Fall, 1998.

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Office hours: Open door and by appointment.

Text: Abstract Algebra (Third edition) by I. N. Herstein, available in bookstore.

Course Content: We will introduce some of the basic notions of algebra, such as groups, rings, fields and homomorphisms. In the text, we will cover approximately Chapters 1–4.

Examination Schedule: There will be 2 Tests and a cumulative final exam:

Test 1: Friday, October 9,

Test 2: Friday, November 20,

Final: Tuesday December 15, 8:00–10:00 AM.

Honor Code: This course will be conducted under the Honor Code. Copying another student's work in an exam is of course a violation of the code.

Homework: Is important! Homework will be assigned about once a week and will not be accepted late without e.g. a medical excuse. To do well you must keep up with the homework and review frequently. You are allowed and encouraged to discuss the problems with classmates, however, the work you hand in should be formulated by yourself only and should not be merely copied.

Homework Presentation: On a rotating basis students are asked to present some homework solution.

Interactive Computer Algebra Project: We will try to incorporate “IDA”, an Interactive Document on Algebra. This Java based program is under development at Eindhoven University of Technology in the Netherlands and it should help to complement a first algebra course. You are encouraged to check out the Beta version on the web:

<http://www.win.tue.nl/math/dw/ida/alge/>

Grading Policy: Each of the 2 tests will be worth 100 points and the final exam will be worth 150 points. The homework will account for 100 points total. Letter grades will be based on total points out of the 450. Active class participation will be taken into account for border line situations.