

MATH 512 – 16420
Introduction to Modern Algebra

FALL 2004

MON, WED, FRI, CW122, 9:30–10:20

Instructor: Prof. Chris Pinner

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Probable Office Hours: MWF 10:30–11:30, U 3:30–4:30, or by appt.

Course Home-Page: <http://www.math.ksu.edu/~pinner/math512/>

Text: *A First Course in Abstract Algebra*, John Fraleigh, 7th edition, Addison-Wesley.

Prerequisites: MATH 222 recommended but all that is required is a sound knowledge of College Algebra and some mathematical maturity.

Course Outline: We should cover much of Fraleigh. In particular groups & subgroups, cosets, homomorphisms and isomorphisms, rings, integral domains, fields, ideals and other topics as time permits.

Grading Scheme

Weekly assignments worth 150 points,

Three mid-terms worth 100 points each.

Tentative dates: Wed Sep 15, Wed Oct 20, Wed Nov 17.

Final Exam worth 150 points, Tues Dec 14, 11:50–1:40.

Assignments: Problems will be assigned weekly, due in class on Friday of the following week. You will generally have about a week to complete the assignment. Don't leave your homework to the last minute (many of the questions will involve proofs or may require extended thought). Show all your work. Include your name and Math 512 on the front. The lowest homework score will be dropped.

General Information: If you have any condition such as a physical or learning disability, which will make it difficult to carry out the work as I have outlined it or which will require academic accommodations, please notify me in the first two weeks of class. There will be no late homework or make-up exams. If you have to miss a test for a valid reason then your course grade will be determined from your remaining work (notify me as soon as possible).