MATH 512 – 12562  
Introduction to Modern Algebra  
FALL 2013  
MON, WED, FRI, W120, 9:30–10:20

Instructor: Prof. Chris Pinner  
Office: Cardwell 205.  
Phone: 532-0587  
email: pinner@math.ksu.edu  
Office Hours: TBA  
Course Home-Page: http://www.math.ksu.edu/~pinner/math512/  

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

Course Overview: We should cover much of Pinter (pretty much everything up to Chapter 20, additional topics up to Chapter 27, material from the later chapters only if there is time). In particular groups & subgroups, cyclic groups, permutations, homomorphisms and isomorphisms, cosets, quotient groups, fundamental homomorphism theorem, rings, integral domains, fields, ideals, quotient rings, polynomial rings and other topics as time permits.

Grading Scheme  
Weekly assignments (100 points).  
Three in class exams (100 points each).  
Final Exam (150 points) Mon Dec 16, 11:50-1:40.  

Assignments: Problems will be assigned weekly, due in the homework box 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).
Mandatory K-State Course Syllabi Statements

1. Statement Regarding Academic Honesty
Kansas State University has an Honor System based on personal integrity, which is presumed to be sufficient assurance that, in academic matters, one's work is performed honestly and without unauthorized assistance. Undergraduate and graduate students, by registration, acknowledge the jurisdiction of the Honor System. The policies and procedures of the Honor System apply to all full and part-time students enrolled in undergraduate and graduate courses on-campus, off-campus, and via distance learning. The honor system website can be reached via the following URL: www.ksu.edu/honor. A component vital to the Honor System is the inclusion of the Honor Pledge which applies to all assignments, examinations, or other course work undertaken by students. The Honor Pledge is implied, whether or not it is stated: 'On my honor, as a student, I have neither given nor received unauthorized aid on this academic work.' A grade of XF can result from a breach of academic honesty. The F indicates failure in the course; the X indicates the reason is an Honor Pledge violation.

2. Statements for Academic Accommodations for Students with Disabilities
Any student with a disability who needs a classroom accommodation, access to technology or other academic assistance in this course should contact Disability Support Services (dss@k-state.edu) and/or the instructor. DSS serves students with a wide range of disabilities including, but not limited to, physical disabilities, sensory impairments, learning disabilities, attention deficit disorder, depression, and anxiety.

3. Statement Defining Expectations for Classroom Conduct
All student activities in the University, including this course, are governed by the Student Judicial Conduct Code as outlined in the Student Governing Association By Laws, Article VI, Section 3, number 2. Students who engage in behavior that disrupts the learning environment may be asked to leave the class.

Useful Dates
- Mon Sept 16 - Last day for 100% refund.
- Mon Sept 23 - Last day for 50% refund.
- Mon Sept 30 - Last day to drop without a W.
- Fri Nov 1 - Last day to drop.