Abstract Algebra

Math 431
9:30-10:50 TR
Olin 205
Spring 2005

Instructor: Dr. Ted Monroe
Office: Olin 204B
Office Hours: MWF 10:00-11:00
MWF 1:30-3:30
597-4533 or monroetr@wofford.edu

Objectives: 1. To improve your ability to
   a. work with abstract mathematical concepts;
   b. construct mathematical proofs;
   c. write mathematical proofs;
   d. recognize errors in flawed proof attempts.
2. To lead you to an undergraduate level understanding of certain algebraic
   structures including rings and groups.


Subject Matter: Chapters 1-7 of text. Topics include divisibility, factorization, congruence
   classes, modular arithmetic, rings, polynomials, irreducibility, ideals, quotient rings, and groups.

Attendance: Attendance at all classes is expected. If you are absent from class, you are
   responsible for material covered and assignments made during your absence. The grade of a
   student who has three unexcused absences will be lowered to the next grade (e.g., B to B-, C- to
   D). Any student with more than three unexcused absences will receive a grade of F.

Instruction: Classes will be a blend of lecture and student presentations.

Testing: Two tests will be given; each will count as 20% of your final grade. A comprehensive
   final exam will count as 30% of your final grade. Homework and presentations will count 30%
   of your final grade.

Test Schedule:
Test #1 Thursday, March 10
Test #2 Thursday, April 14
Final Exam 9:00-12:00 Tuesday, May 17

Grading Scale:
A 92-100
A- 90-91
B+ 88-89
B 82-87
B- 80-81
C+ 78-79
C 72-77
C- 70-71
D 60-69
F Below 60