

MAT 410-001
Fall 2008
Abstract Algebra I (3 credits)

INSTRUCTOR: Chris Christensen
Office phone: 572-6672 Office: ST 353
E-mail: christensen@nku.edu
Website: <http://www.nku.edu/~christensen/>

OFFICE HOURS: MWF 8:30 – 9:30, TR 12:00 – 1:00, by appointment, and by capture.

CLASS TIME: TR 9:25 – 10:40, BP 292.

PREREQUISITE: MAT 234 and MAT 302.

TEXT: *Abstract Algebra, Third Edition* by Dummit and Foote.

TOPICS: We will cover the material in chapters 1, 2, and 3 and topics from chapters 4, 5, and 6.

GRADING: **All tests and the final exam will be “take home.”**

Three tests worth 100 points each	300
Comprehensive final exam	
Due F, December 19 before noon.	<u>200</u>
	<u>500</u>

Work missed during excused absences may be made up without penalty.

Test grading scales will be announced when tests are returned.

ATTENDANCE: You are responsible for all material assigned or covered in class. Attendance will not be taken.

WITHDRAWAL: The deadline for withdrawing from this course with a grade of W is Monday, November 3. Withdrawal after that date is not likely to be permitted.

Mid-Term grades for freshmen will be entered October 13 – October 27.

The instructor reserves the right to alter the syllabus if circumstances dictate.

The work you will do in this course is subject to the Student Honor Code. The Honor Code is a commitment to the highest degree of ethical integrity in academic conduct, a commitment that, individually and collectively, the students of Northern Kentucky University will not lie, cheat, or plagiarize to gain an academic advantage over fellow students or avoid academic requirements.

Course learning objectives:

- The student will know the mathematical definitions, ideas, and theorems of group theory needed to have a reasonable expectation of success in a graduate algebra course.
- The student will be able to write clear and correct mathematical proofs. The student will be able to clearly express mathematical ideas orally.
- The student will understand how the axioms of group theory determine the structure of finite groups.
- The student will be able to recognize algebraic patterns. The student will be able to correctly apply algebraic theorems to construct proofs.

Attainment of course learning objectives will be measured by the three tests and the comprehensive final exam.