Math 4413: Abstract Algebra I

Instructor: Dr. Abdollah Khodkar
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Office Hours:

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<th>Weekdays</th>
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If you would like to see me but cannot come during one of these times, please call first or make an appointment. You must make appointments if you want to see me on Fridays.

**Hours Credit:** 3 hours

**Prerequisites:** MATH 3413 Survey of Modern Algebra

**Textbook:** A first course in Abstract Algebra, 7th edition by John B. Fraleigh, Publisher: Addison-Wesley.

**Topics:** The first of a two-course, in depth, rigorous study in topics in the theory of groups, rings and fields.

**We will cover:**
- Chapter 1: Groups and Subgroups (**Sections 1, 2, 3, 4, 5, 6, 7**)
- Chapter 2: Permutations, Cosets, and Direct Products (**Sections 8, 9, 10, 11, 12**)
- Chapter 3: Homomorphisms and Factor Groups (**Sections 13, 14, 15, 16, 17**)
- Chapter 4: Rings and Fields (**Sections 18, 19, 20, 21, 22, 23, 24, 25**)

**Homework:** After each lesson, I will assign homework problems from the text that are not to be returned in and graded but that are meant to reflect the sort of question you can
expect on tests. I encourage you to use my office hours if you have any questions about them.

**Tests:** There will be 3 class tests. Each will be worth 25% toward your final grade.
- Test 1: Thursday September 10
- Test 2: Thursday October 8
- Test 3: Thursday November 5

**Final exam:** The final exam will be worth 25% toward your final grade.
- Final exam will be on Thursday December 10, 2-4 pm

**Grading Scale:** A: 90-100%, B: 80-89%, C: 70-79%, D: 60-69%, F: 0-59%.

**Grading:** Your final grade will be determined as follows: Tests; 75% and Final: 25%.

**Attendance:**
If you miss a class, you are responsible for obtaining any information that you missed. If you miss a test, you must have a university-approved excuse in order to take a make-up test.

**ACADEMIC DISHONESTY**

Academic dishonesty is NOT tolerated. It will result in failure on assignment(s) as well as possible disciplinary sanction(s) as stipulated by university rules. State University of West Georgia Student Conduct Code defines academic dishonesty as cheating, fabrication, plagiarism, and facilitating or allowing academic dishonesty in any academic exercise.

**Cheating:** Using or attempting to use unauthorized materials, information or study aids;

**Fabrication:** Falsification or unauthorized invention of any information or citation;

**Plagiarism:** Representing the words or ideas of another as one's own. Direct quotations must be indicated and ideas of another must be appropriately acknowledged. Academic dishonesty in any form compromises your grade and lowers the quality of your diploma. A fellow student who cheats may actually lower your grade, sometimes causing unfair and inflated grading scales. I hope each of you values your college education enough to protect yourself from dishonest classmates.