

MATH 4413
Abstract Algebra
Mon, Wed, Fri 1:20-2:10, 303 Boyd

Instructor: Scott Sykes
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OFFICE HOURS: Mon 11:00-12:00, 3:30-4:30
Wed 11:00-12:00, 3:30-4:30
Fri 11:00-12:00

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

Prerequisites: MATH 3003 with a grade of C or better

Learning Outcomes:

1. Students will be able to understand the definitions and know the difference between the majors algebraic concepts of groups, rings, fields, integral domains
2. Students will apply the definitions to prove theorem
3. Students will understand and use the definition of a subgroup and how to use Lagrange's Theorem
4. Students will understand the concepts of cyclic groups, generators of a subgroup, order of a group, permutation groups

TEXT: We will be using the online text *Abstract Algebra: Theory and Applications* by Tom Judson available at abstract.ups.edu (make sure to use the 2016 version).

TESTS: There will be exams on the following dates:

Friday, September 8
Friday, September 29
Friday, October 27
Friday, November 17

FINAL: The final is on **Wednesday, December 6th from 11:00-1:00**. The final counts as two tests.

If you need to miss a test, you must talk to me before the test is given and get my permission. If you miss the test without permission, that will count as a 0!!

Homework: You will have a homework assignment approximately every 2 weeks. You will have 1 week to complete the assignment after it is given. If you miss class, it is your responsibility to find out if an assignment was given out in class. Any late assignments will lose 20% for each day late.

Any cases of academic dishonesty will result in an F for the course and referral based on university policy.

For additional information about all your courses, go to http://www.westga.edu/assetsDept/vpaa/Common_Language_for_Course_Syllabi.pdf

CLASS: You are expected to attend class on a regular basis. Occasionally, in class, you will be given time to work on problems. During these times, you can work with others or by yourself but you must be working on the problems assigned and not work from other classes, homework or talking!! Occasionally, points will be awarded for doing work on these problems.

GRADES: You can drop your lowest score as described above and add the other 6 together plus any bonus awarded in class to get your total score in the class. Note that there are 7 scores coming from 4 tests, 2 for the final and Homework and you drop the lowest one!

<u>POINTS</u>	<u>GRADE</u>
540-600	A
480-539	B
420-479	C
360-419	D
0-359	F

If you ever have any questions or suggestions, feel free to come by my office at any time. I will definitely be there during my office hours, you can just stop by. You can also stop by or call to see if I am there at other times.