

DEPARTMENT OF MATHEMATICS
California State University, Bakersfield
MATH 331 – Algebraic Structures I

Instructor: Charles Lam

Office: SCI 114E

Phone: (661) 654 2403

Email: clam@csub.edu

Homepage: <http://www.csub.edu/~clam>

Class times: 6-8TWR, SCI 177.

Office Hours: 10:30-11:30T, 4:30-6T, 3:30-6R, or drop by when I am in.

Text: Contemporary Abstract Algebra, 6th Ed., by Joseph A. Gallian. ISBN 0-618-51471-6

Course Objectives: This is the first course in abstract algebra. Topics include

- (a) Introduction to Groups
- (b) Subgroups, Finite Groups, Cyclic Groups, Permutation Groups
- (c) Isomorphisms
- (d) Cosets
- (e) Direct Products
- (f) Normal Subgroups
- (g) Homomorphisms
- (h) Fundamental Theorem of Finite Abelian Groups
- (i) Introduction to Rings and Fields

Web page: The web page for the course is at <http://www.csub.edu/~clam/math331w08.html>

Homework: Every week, homework problems will be assigned and is due the week after.

Grading: In addition to homework, there will be two tests, and a final exam (cumulative). A pass (50%) in the final exam is required to obtain a final grade of D- or better.

Homework	20%
Test 1	20%
Test 2	25%
Final Exam	35%

Test Dates:

- First Test: February 7, Thursday (tentative)
- Second Test: March 5, Wednesday (tentative)
- Final Exam: March 13, Thursday, 8-10:30pm

Remarks:

- There will be no make-up exams or tests. If you know in advance that you are going to miss an exam, please make your arrangements with me at least one week ahead.
- Please hand in homework on time. Late homework will be accepted up to the beginning of next class for 50% of credit.

Academic Dishonesty:

You are encouraged to work with your classmates in labs and homework. However, YOU ARE REQUIRED TO HAND IN WORK WRITTEN BY YOURSELF. A rule of thumb is to destroy any evidence of discussion before writing up the solutions yourself.

If you collaborated with anyone, ACKNOWLEDGE COLLABORATORS. Please also note that, ACKNOWLEDGING YOUR FRIENDS ON THE CONTRIBUTION DOES NOT MEAN YOU HAVE THE RIGHT TO COPY OTHERS' WORK. YOU MUST WRITE THE SOLUTIONS IN YOUR OWN WORDS.

If you are caught cheating, the policy for this class is -10% to the final grade on the first offense, -20% for the second, and -50% thereafter.