

**DEPARTMENT OF MATHEMATICS**  
**California State University, Bakersfield**  
**MATH 312 – Complex Variables**

**Instructor:** Charles Lam

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

**Class times:** M 2:05-3:20 (SCI 3-102), TR 12:45-2:45 (SCI 3-107)

**Office Hours:** M 1-2, TR 3-5 or drop by when I am in.

**Course Goals:**

- (1) Understand complex numbers.
- (2) Understand complex analytic functions.
- (3) Study conformal mappings.
- (4) Perform complex integrals.
- (5) Study power series of complex variables.
- (6) Understand residues and use the concept in applications.

**Text (Reference):** Complex Variables and Applications, J.W. Brown, R.V. Churchill, 9th ed.

**Topics covered:** Chapters 1-7, and other topics depending on time.

**Web page:** The web page for the course is at <http://www.csub.edu/~clam/math312s14.html>

**Homework:** Weekly homework will be given, you will have one week to finish homework.

**Homework Presentations:** Every Monday, students are required to take turns to present homework solutions.

**Quiz:** There will be short quizzes, and will be announced one class ahead.

**Grading:** In addition to presentations, quizzes and 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 .....	15%
Presentations .....	5%
Quiz .....	15%
Test 1 .....	15%
Test 2 .....	20%
Final Exam .....	30%

**Test Dates:**

- Test 1: May 6, Tuesday (tentative)
- Test 2: June 3, Thursday (tentative)
- Final Exam: June 11, Wednesday, 2-4:30pm

**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 labs and homework on time. Late labs and 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.