

**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:** MT 11:20-12:35 (SCI 3-102), F 10:55-12:35 (SCI 3-101)

**Office Hours:** M 1:30-3:30, T 10-11:15, 2-3, F 10-10:45.

**Course Objectives:**

- (1) Understand complex numbers and their properties.
- (2) Understand complex analytic functions.
- (3) Study elementary complex functions.
- (4) Perform integrals on complex numbers.
- (5) Study power series over complex field.
- (6) Understand residues and use the concept in applications.

**Text (Reference):** Invitation to Complex Analysis, R.P. Boas ISBN 978-0-88385-764-9

**Web page:** The web page for the course is at <http://www.csub.edu/~clam/math312s15.html>

**Student Activity:** This course will be conducted in the Inquiry Based Learning format. You are required to work with the entire class to produce well-written solutions to problems, and present them in class. Each class, students will be taking turns in presenting solutions to problems. Your grade for this component will start with a grade of C and will adjust accordingly with your participation.

**Homework:** Weekly homework will be given, you will have one week to finish homework. No late homework will be accepted.

**Quiz:** There will be short quizzes, and will be announced one class ahead. No make-up quizzes will be given.

**Grading:** In addition to student activity and homework, there will be one midterm test, and a final exam (cumulative). A 50% in the final exam is required to obtain a final grade of D- or better. A 60% in the final exam is required to obtain a final grade of C- or better.

Student Activity .....	30%
Homework .....	10%
Quiz .....	10%
Midterm .....	20%
Final Exam .....	30%

**Test Dates:**

- Midterm Test: May 8, Friday (tentative)
- Final Exam: June 10, Wednesday, 10am-1:30pm

**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.

**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.