California State University, Bakersfield (CSUB) Department of Electrical &Computer Engineering& Computer Science ECE 306: Complex Analysis in Engineering

Instructor

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Office hours:	Wednesday 10:00AM - 11:00AM

Lecture and Lab Sections

Lecture: Mo/ We/ Fr, 8:30AM - 9:40AM, Science III, Room 315 Laboratory: Th, 7:20AM - 9:50AM, Science III, Room 315

Textbook

Recommended textbook:

Fundamentals of Complex Analysis with Application to Engineering and Science 3rd edition, E.B. Saff and A.D. Snider, ISBN: 0139078746.

Course Objectives

The complex number field, harmonic and analytic functions, conformal mapping, integration, Cauchy's Theorem, singularities, calculus of residues, applications to elliptic systems arising in engineering.

Homework

Homework will be assigned on the course webpage. The homework's due date will be the beginning of class three lectures later. **Late policy:** No late submissions will be accepted, as solutions will be posted on the day after it is due.

Laboratory

The laboratory of this course consists of a set of experiments to complement the material covered in the lecture course.

Grading

Your final grade will be the weighted average of the homework, one midterm exam, and the final exam, as calculate from the formula below:

Homework: 15% Lab: 15% Midterm exam: 30% Final exam: 40%