

January 2, 2014

MATH 246B - Winter 2014- Complex Analysis

Time and Place: MS 6221, MWF 2:00.

Office hours: John Garnett MW 3:00 and by appointment, in MS 7941.

Texts:

- 1) M. Bonk, Complex Analysis, UCLA course notes, available online.
- 2) L. Ahlfors, Complex Analysis, 3rd. Edition, (0-07-000657-1)

Grades: Homework 30%, Midterm 30% final 40%.

Prerequisites: 246A or instructor's permission.

Material: We will follow Mario Bonk's notes Sections 14 - 26, plus additional topics including Koebe distortion theorem, Mergelyan's theorem and Vitushkin's theory of rational approximation, harmonic functions and Perron solution to Dirichlet problem.

Work: There will be four homework assignments of about 10 problems. You are encouraged to work together on the homework problems, but you must write up your solutions separately.

Midterm Exam: February 10. 2:00 - 4:00. (Be sure to be available for 3:00.) Closed book exam.

Final Exam: March 21, 8:00 - 11:00. Closed book. (With unanimous class consent we may hold the exam later that day.)

J. Garnett