Math 246A, Complex Analysis
Fall 2013
Course Information

Class Hours: MWF 2–3pm, MS 6627

Instructor: Mario Bonk

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Office hours: Tu, 2–3pm; We, 3pm–4pm; Th, 2–3pm; and by appointment.

Course web-site: `http://www.math.ucla.edu/~mbonk/246a.1.13f/`

Textbook (optional): J.B. Conway, Functions of one complex variable I, 2nd ed., Springer, New York, 1978.

Grading: There will be weekly homework, one midterm, and a final exam. This will be weighted towards the course grade as follows:

Homework: 30%

Midterm: 30%

Final: 40%

For passing the course it is necessary to turn in homework regularly. Homework will usually be due on Fridays *before* class. No late homework will be accepted. Failure to turn in three homework assignments will automatically result in a failing grade.

Final exam: Thursday, December 12, 2013, 11:30am–2:30pm.

Course material: Algebraic and topological properties of the complex numbers, holomorphic functions, Cauchy-Riemann equations, harmonic functions, path integrals, power series, Cauchy's integral theorem, maximum principle, uniqueness theorem, local mapping properties of analytic functions, Möbius transformations, isolated singularities, residue theorem.