

MATH 631B Spring 2010

Instructor: Professor Stefen Hui, GMCS 621.

Office Hours: TuTh 12:15PM-1:45PM

Prerequisites: Math 631A or consent of instructor.

Text: David Ullrich, Complex Made Simple, AMS

Main Topics:

- General Cauchy's Theorem
- Conformal Mapping
- Riemann Mapping Theorem
- Normal families
- Harmonic functions

Homework: (70%) 8-10 assignments Students may consult each other on homework problems but each student *must* write up the solutions independently in his or her own words. In addition to learning the mathematical concepts, the student should also practice writing mathematics properly. The solutions should be complete, clear, and concise as if they are short technical reports. Try to use complete sentences and incorporate mathematical symbols, formulas, and equations into the sentence structure.

Final: (30%) This is a comprehensive final.

Grades: The grades will be determined by a modified curving procedure with the guarantee that: 90% - A, 80% - B, 70% - C, 60% - D, and below 50% - F.

Furlough Days: No classes on Feb 11, Mar 25