

Syllabus for Math 4320, Complex Analysis

August 22, 2011

Instructor: Ernie Croot

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Try not to email me unless it is absolutely necessary.

Office: 103 Skiles

Office Hours: Tuesday 1:00 to 2:00, and Thursday 3:00 to 4:00.

Class Meeting Times: MWF 9:05 to 9:55 in Skiles 270.

Textbook: Churchill and Brown's, *Complex Variables and Applications*.

Grade: 20% for each of the first two midterms, 30% for homework, and 30% for the final.

Letter grades will be based on the usual 60-70-80-90 scale. Also, I will curve exams to stabilize the median at 75 if it is necessary (I will not subtract points to curve DOWN to 75).

I reserve the right to modify the grading policy at the end of the semester in a way that can only help you (it could not hurt your final letter grade).

Homeworks: Homeworks will be collected about once every two weeks.

Course Material: You will learn the basics of analytic functions on regions of the complex plane. This will include a discussion of the following topics, and maybe more: harmonic functions, analyticity, Gauss's mean value theorem, the Cauchy-Goursat theorem, Cauchy's integral formula, Taylor series, Laurent series, the argument principle, Rouché's theorem, branches of functions, the Picard theorems.