

**MATH 308A - COMPLEX ANALYSIS
WINTER 2008**

MW: 1:10 - 2:30 P.M. (CARNEGIE 111)

Instructor: Peter Wong

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Textbook: *Complex Variables and Applications, 7th ed.* by J. Brown and R. Churchill, McGraw-Hill, New York, 2004.

Office hours: MW: 2:30 - 4:00 pm, or by appointment

Grading: Homework - 30%; 2 mid-terms @20% each; Final Exam - 30%

Prerequisites: Math 206

This is an introduction to complex analysis. We study functions of a complex variable. We discuss notions such as *limits*, *differentiability* and *integrability* (as in first year calculus) for such functions. We plan to cover most of Ch.1 - Ch.7 of the text. If time permits, we discuss parts of Ch. 8,9,10.

Note on exams:

All exams will be take home and they will be handed out one week before due date. The due dates for the exams are (1) Exam I - due February 6; (2) Exam II - due March 19; and (3) Final Exam - due 10:30am Thursday April 10. Under **NO** circumstances are you allowed to discuss the exam problems with anyone else BUT me. Collaboration, in any form, with other classmates on any exam problem is prohibited. I TAKE THIS VERY SERIOUSLY.

Homework problems from the text will be assigned frequently and reading assignment will be given at the end of every lecture. Be sure to read ahead of time before coming to the next class. I will collect the homework on the indicated due dates. Since I will assign many problems, I will select a few to grade. **Late homework may NOT receive any credit.**

Tentative Syllabus:-

week 1: §§1 - 10; **HW#1** - due on January 9

week 2: §§11 - 16; **HW#2** - due on January 16

week 3: §§17 - 24; **HW#3** - due on January 23

week 4: §§26 - 33; **HW#4** - due on January 30

week 5: §§36 - 41; **Exam I** - due on February 6

week 6: §§42 - 46; **HW#5** - due February 13

week 7: §§47 - 50; **HW#6** - due on February 27

week 8: §§51 - 54; **HW#7** - due on March 5

week 9: §§55 - 58; **HW#8** - due on March 12

week 10: §§59 - 62; **Exam II** - due on March 19

week 11: §§63 - 70; **HW#9** - due on March 26

week 12: §§71-72, 74-78. **HW#10** - due on April 2