

MATH 308A - COMPLEX ANALYSIS WINTER 2006

MWF: 12:05 - 1:00 P.M. (HATHORN 100)

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: MWF: 11:00 am- 12:00 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 17; and (3) Final Exam - due 12:30pm Tuesday April 11. 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.

Class Meetings: In addition to the MLK day (Jan. 16) and the Winter Recess (Feb. 20 - 24), there will be NO classes on the following dates: Jan. 13, Mar. 20 for I will be away for a conference. I will set up two extra meeting times during the semester to make up for these classes.

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 18*
- week 3: §§17 - 24; HW#3 - due on January 25*
- week 4: §§26 - 33; HW#4 - due on February 1*
- week 5: §§36 - 41; Exam I - due on February 6*
- week 6: §§42 - 46; HW#5 - due February 10*
- week 7: §§47 - 50; HW#6 - due on February 17*
- week 8: §§51 - 54; HW#7 - due on March 6*
- week 9: §§55 - 58; HW#8 - due on March 13*
- week 10: §§59 - 62; Exam II - due on March 17*
- week 11: §§63 - 70; HW#9 - due on March 27*
- week 12: §§71-72, 74-78. HW#10 - due on April 3*