

Spring 2010, Math 515-090

Complex Analysis

4:00–5:15 pm MW, Maybank 113

Instructor: Renling Jin, Office: 326 RSS

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Office Hour: 10:00–11:00 am MWF, or by appointment on MWF

Text: *Complex Variables–Introduction and Application, 2nd Ed.* by M. J. Ablowitz & A. S. Fokas

Course Description: Topics to be covered include the complex number system, analytic and harmonic functions, power series, integration, residue theory, analytic continuation, conformal mapping and applications. We intend to cover Chapter 1 - 5 with some omissions.

Prerequisite: Prerequisite: Math 311 (Advanced Calculus).

Grading: There will be two midterm tests (25% each), a final exam (30%) and homework assignments (20%). Your letter grade will be assigned as follows:

90 – 100 A, 85 – 89 B+, 80 – 84 B, 75 – 79 C+, 70 – 74 C, below 70 F

Please note that NO extra work will be offered in order to lift one's grade and NO special consideration for an individual will be given for changing the weight distribution of the tests, homework, and final exam. In order to earn a good grade, one needs to perform well through entire semester.

Important dates:

test 1: 02/15, test 2: 03/29

final exam: 4:00–7:00 pm. Monday, May 3

last day to drop with a grade of "W": 02/22

first day of the class: 01/11, last day of the class 04/26

holidays and breaks: 01/18, 03/08, 03/10

Homework: Homework exercises will be assigned at the beginning of every class. They will be collected once a week by, for example, the following arrangement. The exercises assigned in Monday and Wednesday will be discussed in the Monday and collected in the Wednesday of the next week. The instructor will correct the exercises and give points accordingly. Homework turning in late may suffer an up to 50% reduction of the original points. Students are encouraged to discuss with the instructor on other non-assigned problems from the textbook. Some extra problems will be assigned for graduate students.

Additional help: When you have questions and can't come to the instructor's office for help during his office hours, you should (1) discuss with and get help from your peers (but no copying each other's homework), or (2) make an appointment with the instructor on Monday, Wednesday, and Friday.

Attendance Policy: Regular attendance is required and expected. If you must miss a test, you must contact the instructor in advance as well as obtain a written excuse from the **office of associate dean of students at 67 George Street**. You can leave a message with the Mathematics Department Secretary or send the instructor an e-mail message if he is not in his office.