MAT 513, INTRODUCTION TO COMPLEX ANALYSIS

Spring Semester 2017

Instructor: Yuan Yuan, 313F Carnegie, phone 443-1558, e-mail: yyuan05@syr.edu, Office hours: MW 11:00-12:00

Course Prerequisites: MAT 412 or MAT 511 or graduate standing in Mathematical Sciences

Course Description: Complex numbers, topology of the complex plane, analytic functions and the Cauchy-Riemann equations, integration and Cauchy's theorem, Taylor and Laurent series, residues.

Textbook: Complex Analysis, by Ian Stewart and David Tall, Cambridge University Press 1983. We will cover most of Chapters 1-8 and 10-12.

Grading: The course grade will be based on 2 semester exams (25% each, given in class), a final exam (30%), and homework problems (20%). There will be no make-up exams and late homework will not be accepted. All exams are closed books and closed notes. The final exam is comprehensive.

Exam Dates: The dates for midtermss will be announced later in class. The final exam is on May 10, 2017 from 8am to 10am.

Homework: Solving the homework problems is crucial for succeeding in this course. Assignments will be collected regularly, as announced in class. It is important that after each class you read and understand the material covered from the textbook and your notes.

Class Attendance and Participation: You are expected to attend and participate in class. Missing class is the most common reason for poor performance in the course. If you must miss a class, you are responsible for obtaining notes for that class from a student who attended. It is also your responsibility to find out about any announcements made in class.

Academic Integrity: The Syracuse University Academic Integrity Policy holds students accountable for the integrity of the work they submit. Students should be familiar with the Policy and know that it is their responsibility to learn about instructor and general academic expectations with regard to proper citation of sources in written work. The policy also governs the integrity of work submitted in exams and assignments as well as the veracity of signatures on attendance sheets and other verifications of participation in class activities. Serious sanctions can result from academic dishonesty of any sort.

Disabilities: Students who may need academic accommodations due to a disability are encouraged to discuss their needs with the instructor at the beginning of the semester.   In order

to obtain authorized accommodations, students should be registered with the Office of Disability Services (ODS), 804 University Avenue, Room 309, 315-443-4498 and have an updated accommodation letter for the instructor. Accommodations and related support services such as exam administration are not provided retroactively and must be requested in advance. For more information contact the Office of Disability Services.

Office of Disability Services: Office of Disability Services, 804 University Avenue Room 309, Syracuse, New York 13244-2330 (315) 443-4498 TDD: (315) 443-1371 e-mail: odssched@syr.edu

Religious Observances Policy: SU religious observances policy recognizes the diversity of faiths represented among the campus community and protects the rights of students, faculty and staff to observe religious holidays according to their tradition. Under the policy, students are provided an opportunity to make up any examination, study, or work requirements that may be missed due to a religious observance provided they notify their instructors before the end of the second week of classes. For fall and spring semesters, an online registration is available through MySlice (Student Services -> Enrollment -> My Religious Observances) from the first day of class until the end of the second week of classes.