

MAT 712, Functions of a Complex Variable I, Spring 2011

TTh 12:30-1:50, Carnegie 306

Instructor: Dan Coman, 317D Carnegie, phone 443-1496, e-mail: dcoman@syr.edu
Office hours: TBA

Course Description: analytic functions, harmonic functions, Cauchy theory, power series, Laurent series and singularities, residue theorem, argument principle, Schwarz lemma and reflection principle, conformal representation, theorems of Montel and Picard.

Textbook: *Complex Analysis*, by T. Gamelin, Springer-Verlag, New York, Inc., 2001. We will cover most of Chapters I-XII.

Exams and Grading: The course grade will be based on a midterm exam (30%), a comprehensive final exam (50%), 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. The exams will consist of solving problems and of theoretical questions on the material covered (i.e. definitions of important concepts, relevant examples, statements and proofs of theorems).

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

Attendance: Attendance is required. Students are responsible for all the announcements made in class (about exams, assignments, due dates, changes of schedule, etc). If you miss a class, you are responsible for obtaining notes for that class from a student who attended.

Students with Disabilities: If you believe that you need accommodations for a disability, please contact the Office of Disability Services (ODS), <http://disabilityservices.syr.edu>, located in Room 309 of 804 University Avenue, or call (315) 443-4498 for an appointment to discuss your needs and the process for requesting accommodations. ODS is responsible for coordinating disability-related accommodations and will issue students with documented disabilities Accommodation Authorization Letters, as appropriate. Since accommodations may require early planning and generally are not provided retroactively, please contact ODS as soon as possible. You are also welcome to contact me privately to discuss your academic needs although I cannot arrange for disability-related

accommodations. Making arrangements with ODS takes time. Do not wait until just before the first test.

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. For more information and the complete policy, see <http://academicintegrity.syr.edu>