

MAT 712, Functions of a Complex Variable I, Spring 2009

MWF 11:40-12:35, Carnegie 300

Instructor: Dan Coman, 317D Carnegie, phone 443-1496, e-mail: dcoman@syr.edu
Office hours: MWF 1:30-2:30

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%), given in class on **Wednesday, March 4**, a final exam (50%) on **Thursday, April 30, 2:45-4:45 PM**, 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.

Disability-Related Accommodations: Students who are in need of disability-related academic accommodations must register with the Office of Disability Services (ODS), 804 University Avenue, Room 309, 315-443-4498. Students with authorized disability-related accommodations should provide a current Accommodation Authorization Letter from ODS to the instructor and review those accommodations with the instructor. Accommodations, such as exam administration, are not provided retroactively; therefore, planning for accommodations as early as possible is necessary. For further information, see the ODS website, <http://disabilityservices.syr.edu/>.

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> . Students found to cheat will receive an F for that assignment. Students have a right to appeal.