

MAT 712, Functions of a Complex Variable I, Spring 2013

TTh 9:30-10:50, Carnegie 119

Instructor: Dan Coman, 317D Carnegie, phone 443-1496, e-mail: dcoman@syr.edu
Office hours: TTh 11-11:30, 2-3

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 **Tuesday, March 5**, a final exam (50%) on **Wednesday, May 8, 8-10 AM**, 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. Making arrangements with ODS

takes time. Do not wait until just before the first test.

Academic Integrity: Syracuse University sets high standards for academic integrity. Those standards are supported and enforced by students, including those who serve as academic integrity hearing panel members and hearing officers. The presumptive sanction for a first offense is course failure, accompanied by the transcript notation Violation of the Academic Integrity Policy. The standard sanction for a first offense by graduate students is suspension or expulsion. Students should review the Office of Academic Integrity online resource Twenty Questions and Answers About the Syracuse University Academic Integrity Policy and confer with instructors about course-specific citation methods, permitted collaboration (if any), and rules for examinations. The Policy also governs the veracity of signatures on attendance sheets and other verification of participation in class activities. Additional guidance for students can be found in the Office of Academic Integrity resource: What does academic integrity mean?

Related links:

The Academic Integrity Policy: <http://academicintegrity.syr.edu/academic-integrity-policy/>

Twenty Questions and Answers about the Academic Integrity Policy:
<http://academicintegrity.syr.edu/faculty-resources/>

What does academic integrity mean?:
<http://academicintegrity.syr.edu/what-does-academic-integrity-mean/>

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