

MAT 712, Functions of a Complex Variable I, Spring 2018

MWF 9:30-10:25, Carnegie 120

Instructor: Dan Coman, 317D Carnegie, phone 443-1496, e-mail: dcoman@syr.edu
Office hours: MW 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 take-home midterm exam (30%), a final exam (50%), and homework problems (20%). The final exam is a two-hour exam, given at a time and place to be announced in class. *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.

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 academic adjustments (accommodations) for a disability, please contact the Office of Disability Services (ODS), <http://disabilityservices.syr.edu>, located in Room 303 at 804 University Avenue, or call (315) 443-4498 or TDD: (315) 443-1371 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.**

Academic Integrity: Syracuse University's Academic Integrity Policy reflects the high value that we, as a university community, place on honesty in academic work. The policy defines our expectations for academic honesty and holds students accountable for the integrity of all work they submit. Students should understand that it is their responsibility to learn about course-specific expectations, as well as about university-wide academic integrity expectations. The policy governs appropriate citation and use of sources, the integrity of work submitted in exams and assignments, and the veracity of signatures on attendance sheets and other verification of participation in class activities. The policy also prohibits students from submitting the same work in more than one class without receiving written authorization in advance from both instructors. Under the policy, students found in violation are subject to grade sanctions determined by the course instructor and non-grade sanctions determined by the School or College where the course is offered as described in the Violation and Sanction Classification Rubric. SU students are required to read an online summary of the University's academic integrity expectations and provide an electronic signature agreeing to abide by them twice a year during pre-term check-in on MySlice.

The Violation and Sanction Classification Rubric establishes recommended guidelines for the determination of grade penalties by faculty and instructors, while also giving them discretion to select the grade penalty they believe most suitable, including course failure, regardless of violation level. Any established violation in this course may result in course failure regardless of violation level. For more information and the complete policy, see <http://class.syr.edu/academic-integrity/>

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 notification process 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.