

MAT 513 Spring 2014

TuTh 9:30-10:50 am Carn 300

Instructor: Andrew Vogel, 229F PB, 443-1584, alvogel@syr.edu office hours MW 1-2 and by appt.

Book: *Complex Analysis* by Ian Stewart & David Tall, Cambridge University Press

Course Content: Most of Chapters 1-12 and 13 if time permits. This will include, algebra of complex numbers, topology of the complex numbers, power series, differentiation, integration, Taylor and Laurent series, residue theorem, and hopefully conformal transformations.

Grading: There will be two semester exams (25% each, first on 13 February, second on 27 March), the final exam (30%, on Wednesday May 7, from 8-10am) and weekly homework (20%). The comprehensive final will be given during the university scheduled time.

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 303 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 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.

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>

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 are 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 class.

Cell Phones: all electronic devices other than the calculator should be turned off and put away during class. Calculators on cell phones are not to be used on tests or quizzes.

Program Learning Outcomes

In all outcomes that call for mastery of some skill, such mastery is called for at the appropriate undergraduate level. Moreover, levels of mastery may well vary from student to student. Understand and compute (geometrically and arithmetically) with complex numbers and complex functions. Understand and use the major theorems on differentiation and integration of complex functions (differentiation, integration, power series, residues, conformal mapping)