

## MAT 513 Spring 2012

**Instructor:** Andrew Vogel, 229F PB, 443-1584, [alvogel@syr.edu](mailto: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 15 February, second on 28 March ), the final exam (30%, on 9 May 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 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>

**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.

For all Math majors:

- Having a basic knowledge of the contributions and significance of important historical figures in mathematics
- Having a basic knowledge of the major modern theories of analysis, abstract algebra, geometry, and applied mathematics
- Ability to effectively use mathematical word processing software
- Having a basic understanding of career options available to mathematics majors
- Ability to locate and use sources and tools that aid mathematical scholarship