

**SYRACUSE UNIVERSITY**  
**MAT 701 SYLLABUS, FALL, 2013**

**Instructor** Professor Philip Griffin  
Carnegie 304C  
443-1480  
[psgriffi@syr.edu](mailto:psgriffi@syr.edu)

**Office Hours** T,Th 1:00-2:00 and by appointment.

**Text** Real Analysis for Graduate Students, by Richard Bass. Free download available at <http://homepages.uconn.edu/~rib02005/real.html>

**Course Content** Chapters 1-15. Topics include: sigma-algebras, outer measures, measures, Caratheodory extension theorem, measurable functions, integration, limit theorems, comparison of Lebesgue and Riemann integrals, modes of convergence, product measures, Fubini's theorem, signed measures, Hahn-Jordan decomposition, Radon-Nikodym theorem, differentiation,  $L_p$  spaces and their duals. Other topics as time permits.

**Grading** Homework, midterm and a final exam will be used to determine your grade for the course. You may discuss the homework problems with each other, but you must write up your own solution to hand in. The final exam is scheduled for Mon, Dec 9, 12:45pm-2:45pm.

**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.

**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** Cell phones should be turned off and put away during class.