MAT 534
Fall 2014

Instructor:	Professor Dan Zacharia
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Lecture:	MW 3:45–5:05, 119 Carnegie
Office hours:	MW 10:00–11:30.
	Also by appointment, and any time my door is open.

Course Description: Development of modern abstract algebra with an emphasis on developing proof-writing skills. Topics (as time permits) include groups, dihedral groups, subgroups, cyclic groups, permutation groups, cosets, direct products and finitely generated abelian groups, homomorphisms, normal subgroups and factor groups, isomorphism theorems, rings, domains, fields, polynomial rings, ideals, factor rings, isomorphism theorems.

Text: *Contemporary Abstract Algebra*, 8th ed., by Joe Gallian, Brooks/Cole 2013. Textbook website: http://www.d.umn.edu/ jgallian/

Prerequisite: MAT 531.

Homework: The regular graded homework assignments are crucial to your development. Working independently on them should help you to learn much more effectively.

The first serious attempt you make on each problem set should be alone with time to think. After that, you may work with others on the homework, provided that you write up your solutions completely independently, that is, in your own words. You are more than welcome to ask questions about homework problems in class and during office hours!

No late homework will be accepted.

Examinations: There will be three term exams counting 20% and a cumulative final exam counting 25%, for a total of 85%. The homework, quizzes and class participation will count 15% of the final grade. The dates for the term exams will be announced in class. There will be no make-up exams. A missed midterm exam counts as zero unless the student presents a note from the doctor or from the Dean's office stating explicitly that the student was not able to attend. With the note, the final exam grade will be used in place of the missing grade. Everyone is required to take the final exam.

Final Examination: The final examination covers the entire course. It will be given on Friday, December 12, 2014 between 3:00 PM - 5:00 PM in 119 Carnegie. **Do not make arrangements to leave campus before 5:00 PM on Friday, December 12.** The final will not be given at any other time.

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.

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 your instructor 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.