

MAT 534
Spring 2017

Instructor: Professor Dan Zacharia

Office: 300B Carnegie

Phone: 443-1580

email: zacharia@syr.edu

Lecture: MW 8:00–9:20, 120 Carnegie

Office hours: MW 10:00–11:30.

Also by appointment, and any time my door is open.

Course overview: The main goal of the course is to provide an introduction to modern abstract algebra, primarily groups and rings. This is a proof based course and is primarily intended for mathematics majors.

Text: *Contemporary Abstract Algebra*, 9th ed., by Joseph Gallian, Brooks/Cole 2017. The course covers most of Chapters 1-11 (Groups) and 12-15 (Rings).

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!

Quizzes: There will be (almost every week) in-class quizzes. They will be based on the assigned homework and/or other exercises from the textbook.

Learning outcomes: In addition to learning the basic theory of groups and rings, the student should learn how to read, understand and write proofs and use abstract mathematical arguments based on axioms and rules of logic.

Examinations: There will be two term exams each counting 25% and a cumulative final exam counting 30% for a total of 80%. The quizzes, homework and class participation will count for the remaining 20% 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. Letter grades are determined as follows:

93-100	A	77-79	C+
90-92	A-	73-76	C
87-89	B+	70-72	C-
83-86	B	65-69	D
80-82	B-	0-64	F

Final Examination: The final examination covers the entire course. It will be given on Thursday, May 4, 2016 between 8:00 AM - 10:00 AM in 120 Carnegie. **Do not make arrangements to leave campus before 11:00 AM on Thursday, May 4.** 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.

Faith Tradition Observance: SU's religious observances policy can be found at

http://supolicies.syr.edu/emp_ben/religious.observance.htm

Under the policy, students are provided an opportunity to make up any examination, study, or work requirement that may be missed due to a religious observance provided they notify their instructors before the end of the second week of classes. There is an online notification process available on MySlice.