

Instructor: Dr. Leonard Chastkofsky

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Office Hours: M, W 11:20-12:10, Thu. 1:30-2:00 P.M. and by appointment .. The grader for this course is JaeHo Shin (office 427H, Grad Studies).

Text: Abstract Algebra: A Geometric Approach, by Theodore Shifrin.

Material: Chapters 6 and 7.

Grading:

Homework	30%
2 Tests	40%
Final Exam (comprehensive)	30%

Homework: **Doing problems is the most important part of the course—it's the only way to learn advanced mathematics!** I encourage you to consult with me whenever you need help—I'll gladly provide hints in office hours. It is permissible to discuss the problems with other students, but **you must write up your own solutions, independently**. Late homework will normally not be accepted for credit.

Objectives: This course is a continuation of Math 4000. In that course, we learned about rings and fields, which are abstract structures generalizing some familiar ones, such as the integers, rational numbers and polynomials. In this course, we will learn about groups, which have a simpler structure, but important examples of which may not be so familiar. We will also give an introduction to Galois theory, which shows how groups can shed light on field extensions which were studied in Math 4000.

Test Dates:

Test #1:	Wed. Feb. 20	(tentative: please see me as soon as possible if there are conflicts)
Test #2:	Wed. Apr. 9	
Final Exam:	Wed. Apr. 30, 8–11 a.m.	

Policy: I don't accept late homework or give makeup exams. Although you are permitted to discuss homework with other students, you are expected to **write up your assignments individually**. Referring to another student's written work while writing yours, writing up homework together, or allowing another student to copy your written work, constitutes academic dishonesty. "All students are responsible for maintaining the highest standards of honesty and integrity in every phase of their academic careers. The penalties for academic dishonesty are severe and ignorance is not an acceptable defense." See especially sections 5 and 7 of: http://www.uga.edu/ovpi/academic_honesty/culture_honesty.htm.