

Math 321: Algebra I

Fall 2004

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Office Hours: Tuesday 3:00–4:00, Wednesday 9:00–10:00,
Thursday 10:00–11:00, Friday 3:00–4:00

Course Web Page: <http://www.smcm.edu/users/sgoldstine/Math321f04.html>

Text: John B. Fraleigh, *A First Course in Abstract Algebra, Seventh Edition*

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Course Material

The focus of this course is group theory, and we will cover most of Chapters 1–3 of the text. The pace will be very roughly one section per week.

Course Goals

Together with Math 322:

- To provide a thorough grounding in the basic results and techniques of abstract algebra.
- To develop the skills required to study higher mathematics.

You have reached a point in your studies in which you should endeavor to grasp as much of the big picture as possible, both mathematically and educationally. On the mathematical side, work on understanding as thoroughly as possible the connections between different mathematical concepts and the motivation for each object or technique we discuss. In your study, work on getting as much as you can out of texts, out of exercises, out of fellow scholars; try to develop skills such as generating your own examples and counterexamples for new definitions and propositions; and practice communicating algebraic theorems and ideas formally and informally to others.

Homework

There will be about eight homework assignments this semester. We will grade a selected subset of the problems on each set.

Homework deadlines can be hard to meet, but it is vital that you keep up with the coursework. Therefore, late homeworks will be accepted up to a certain point without prejudice, but I will deduct 20% of the grade if the set is one class meeting late, 40% if it is two class meetings late, and will not accept any homework over a week past the deadline.

Exams

There will be two midterms: an in-class exam and a take-home exam. There will also, naturally, be a final exam, which will have both in-class and take-home sections.

Grading

Homework	20%
Midterm I	20%
Midterm II	20%
Final	40%