

MAT 516: Abstract Algebra II, Spring 2014

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Office Hours: Tuesdays and Thursdays 2:00PM-3:00PM in Petty 105
and by appointment.

Course Description and Objectives

A second semester abstract algebra class, following MAT 311. We will study rings, integral domains, fields, ideals, and factorization. Some group theoretic topics like group actions and the Sylow theorems may also be covered.

Meeting Times

The class will meet on Tuesdays and Thursdays from 11:00AM to 12:15PM in SULV 217.

Textbook

The textbook for this course is *A First Course in Abstract Algebra* by Fraleigh.

Prerequisites

A grade of at least C in MAT 311.

Material covered

We will cover most of the material in sections IV, V, and IX of the book, i.e. Chapters 18–23, 26–27, and 45–47. Chapters 13–14 contain essential background material, covered in MAT 311.

Policies

1. Attendance Policy: Attendance is mandatory. If you miss a class, you are still responsible for the material covered.
2. Academic Integrity Policy: You must abide by the UNCG Academic Integrity Policy: <http://academicintegrity.uncg.edu/>

Grades

Your grade will be based on weekly homework (40%), two in-class tests (15% each) (2/13, 3/27, 11:00AM-12:15PM, SULV 217), and the final exam (30%) (5/1, 12:00NOON-3:00PM,

SULV 217). The following grade scale will be used (with \pm assigned for top/bottom 2 points of each range):

A: 90-100 B: 80-89 C: 70-79 D: 60 - 69 F: 59 and below

Homework: Talking about problems with me and your classmates is allowed. When it comes time to submit your work, you are expected to write up your solutions on your own and in your own voice, solely from the understanding you have gained of the problem (i.e. not by reading them off of something else.) If you got a problem largely through the help of others, you should invent (or ask me for) variants that you should then attempt to solve yourself.

Getting Help: If you think that you are falling behind, you should get help. Talk over problems with me or your classmates. Bring it up in class. Come to my office hours.

Add/drop dates:

Last day to drop/add with no "W" on transcript 1/17

Last day to withdraw with no academic penalty 3/7

Academic Integrity: University students are expected to follow the highest standards of academic honesty. Please refer to the UNCG Academic Integrity Policy available at <http://academicintegrity.uncg.edu/>.