

## MT312: Algebraic II Spring 2014

**Instructor:** Dawei Chen, Carney 266, [dawei.chen@bc.edu](mailto:dawei.chen@bc.edu)

**TA:** Steve Thakur, Carney 348, [steve.thakur@bc.edu](mailto:steve.thakur@bc.edu)

**Class time and location:** MWF 12–12:50, Fulton 423.

**Office hours (tentative):** M 2-3:30pm, W 3:30-5pm;  
M 3:30-5pm, Th 1-3pm (Steve)

**Textbook:** I. N. Herstein, Topics in Algebra, 2nd ed.

**Prerequisites:** MT311: Algebra I

**Course description:** This course is for BS candidates. This is the second half of a two-semester sequence. This semester we will study Vector Spaces, Modules, Fields, and Linear Transformations, covering approximately 4.1, 4.2, 4.5, 5.1, 5.3-5.8 and 6.1-6.9 in the textbook.

**Homework:** Written homework will be assigned and graded weekly. Homework solutions must be submitted in Tex. You are encouraged to work together on the homework, but the solutions you hand in should be in your own words.

**Exam:** There will be two midterm exams and a final exam. They will be in-class exams. The final exam will be comprehensive. Tentative dates of the exams:

*Midterms:* Wednesdays, Feb 19 and Apr 2

*Final:* Friday, May 9 at 12:30pm.

**Grade:** Your final grade will be based on 10% homework, 20% each midterm, 50% final.

**Academic integrity:** Many people find discussing problems with others to be the best, easiest, most efficient and most pleasant way to learn mathematics. You are permitted and encouraged to do this!

Nevertheless, you must write up all the homework solutions by yourself only. Copying solutions from someone or somewhere else is not only intellectually dishonest but it also undermines the educational process. If you are caught cheating on a problem set, you will receive **zero** for that set. BC's policy on academic integrity can be found at [www.bc.edu/integrity](http://www.bc.edu/integrity).

**Special need:** If you are a student with a documented disability seeking reasonable accommodations in this course, please contact Kathy Duggan, (617) 552-8093, [dugganka@bc.edu](mailto:dugganka@bc.edu), at the Connors Family Learning Center regarding learning disabilities and ADHD, or Paulette Durrett, (617) 552-3470, [paulette.durrett@bc.edu](mailto:paulette.durrett@bc.edu), in the Disability Services Office regarding all other types of disabilities, including temporary disabilities. Advance notice and appropriate documentation are required for accommodations.