MT 806 Algebra I
Fall 2012 Syllabus

Meeting times: MWF 12, Carney 006

Instructor: Maksym Fedorchuk, Carney 324 <maksym.fedorchuk@bc.edu>
Office hours: TBA, or by appointment.

Course website: www2.bc.edu/maksym-fedorchuk/806.html

TA: TBD

Course outline: We will cover groups, rings, modules, and basics of representation theory. I will assume familiarity with basic group and ring theory.

Textbook: Abstract Algebra, 3rd edition, by Dummit and Foote. We will follow the textbook rather closely and will cover most of the chapters 4–6, 8–12, 18, 19. I will complement the textbook by a certain amount of material and for this reason encourage you to keep lecture notes.

Assignments: Working out problems by yourself and writing down their solutions in a rigorous manner is essential to learning any kind of mathematics and algebra is not an exception. As a result, written homework constitutes an integral part of this course. Assignments are posted to the course website every week and are due in class; usually on Fridays. Please follow the collaboration policy below while completing your assignments.

Exams: There will be a midterm and a final. The midterm is tentatively scheduled for Wednesday, October 24 and the final exam is tentatively scheduled for Monday, December 17. There will be no make-up exams.

Grading: Your course grade will be determined by the following components:

Homework  60%
Midterm  20%
Final  20%

Collaboration policy: You are allowed to work on the problems together. However, every problem that you submit has to be written by yourself in your own words and without any outside help. If you do collaborate on solving a particular problem, please list the names of anyone you discussed the problem with on the write-up. Same rules apply to outside sources. No collaboration is allowed on the exams.