Abstract Algebra II
Math 8221 Section 5, CRN-15827, Spring 2012

Instructor: Florian Enescu

Classroom: 422 Sparks Hall **Class timings:** Tu Th 4:00 – 5:15 pm

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Office: 758 COE **Phone:** (404) 413 - 6442

Office Hours: Tuesday 2-3pm Thursday 10-11am and by appointment.

Recommended textbook:

Basic abstract algebra, 2nd edition

by P. B. Bhattacharya, S. K. Jain, S. R. Nagpaul, ISBN 0-521-46629-6.

We will cover most of the chapters 11, 14, 18 (section 4) 20, 21 and 22, and time permitting chapter 19.

Other recommended texts:

D. Dummit and R. Foote, Abstract Algebra, Wiley, (list price: 147.16)

S. Lang, Algebra, Springer Verlag (list price : $ 74.95)

T. Hungerford, Algebra, Springer Verlag (list price: $ 54.95)

M. Artin Algebra, Prentice Hall (list price: $ 114.40)

Course content/outcome: The course offers a solid introduction in graduate level algebra. It covers essential chapters in modern algebra: UFDs and Euclidean domains and basic module theory including free modules, the structure theorem for finitely generated modules over PIDs, Smith normal form over a PID, tensor product of modules.

Prerequisites: MATH 8220 with a grade of C or higher. During the first two weeks of the semester the Department of Mathematics and Statistics checks the computer records to determine whether or not each student has met the prerequisites for this course. If you do not have the prerequisites please so inform your instructor and change to another course right away. If you do not attend class during the first two weeks you will be administratively dropped.

Grading scheme for Math 8221:

Homework:	25 %	
Exam 1:	25 %	Thursday, February 16
Exam 2:	25 %	Tuesday, March 29
Final exam:	25 %	Thursday, April 26, 16:15 pm

Homework: Regularly scheduled homework assignments will be provided (generally every seven to ten days). You can talk among yourselves about the problems assigned, however the work turned in has to be individually written.

Exams: There will be two exams and one in-class final exam. The final exam is comprehensive and required. The lowest score of the two midterm exams will be replaced by the final if advantageous to the student.

Using the above weights, letter grades will be assigned (roughly) as follows:

97–100 = A+, 93–96 = A, 90–92 = A-, 87–89 = B+, 83–86 = B, 82–80= B-, 77–79 =C+, 70–76 = C 60–69= D

less than 60 = F.

Attendance: You are expected to attend regularly for the entire period of the class. That is, you are expected to arrive on time and stay for the duration of the class. Attendance will be taken periodically. After four or more absences a student can be dropped from this class. In case of an absence, the student is responsible for knowing all the material covered.

Important dates: Last day to drop a class: January 13,by 5pm on GoSolar. A student that does not attend the first two weeks can be dropped by the instructor.

Last day to withdraw from term length classes and possibly receive a W: February 24.

Disruptive behavior: Any disruptive behavior will be handled according to the University's policy on disruptive behavior (http://www.gsu.edu/∼wwwsen/minutes/2002-2003/disrupt.html). This includes the possibility of withdrawing the student from the class.

Academic honesty: Academic honesty is expected from any student. Cheating will not be tolerated and handles according to the University's policy on academic honesty (http://www.gsu.edu/∼wwwdos/codeofconduct_conpol.html) which includes academic as well as disciplinary penalties.

Special accomodations: Students who wish to request accommodation for a disability may do so by registering with the Office of Disability Services. Students may only be accommodated upon issuance by the Office of Disability Services of a signed Accommodation Plan and are responsible for providing a copy of that plan to instructors of all classes in which accommodations are sought.

Changes: Any changes to the above syllabus will be announced in class. The course syllabus provides a general plan for the course; deviations might be necessary.