

Math 536: Algebra II - Spring 2008
Mo, We, Fri 1:25-2:15pm, 113 McAllister

General Information

Instructor: Dr. Kirsten Eisenträger

Office: 422 McAllister Building

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Office hours: Mo 2:15-3pm, Th 2:00-3:30pm, and by appointment

Textbook: *Basic Algebra* by Anthony W. Knap, Birkhäuser, 2006

Course webpage: <http://www.math.psu.edu/eisentra/courses/math536>

Course Topics: This is the second semester of the graduate algebra sequence. We will study groups, rings and modules. We will also cover field and Galois theory.

List of Topics:

(The numbers refer to the numbers in Knapp's text.)

IV. Groups and Group Actions.

VIII. Commutative Rings and their Modules.

IX. Field and Galois Theory.

VI. Multilinear Algebra.

Grading:

Homework (45%), First Midterm (15%), Second Midterm (15%), Final Exam (25%).

Homework:

There will be a number of homework assignments which will be collected and graded. Homework is due at the beginning of class on the given due date. No late homework will be accepted without approval from the instructor in advance. You are encouraged to discuss the homework assignments with other students in the class; however, if you do, you should write on your homework submission the students with whom you discussed the assignment. You are required to write up your own solutions.

Examinations:

Two in-class midterm exams will be given. The first midterm will be on **Friday, February 22**. The second midterm will be on **Friday, April 4**.

The **final exam** in this course will be comprehensive. It will be given during final examination week, May 5-9, 2008. **Do not make plans to leave the university before the end of this week.**

Academic Integrity: Students are expected to abide by the University and Eberly College of Science policy about academic integrity; please refer to the following webpage:

<http://www.science.psu.edu/academic/Integrity/index.html>