

MATH 620



Abstract Algebra II

spring 2007

Instructor

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Office hours

TR 1:00-2:00 PM and by appointment

Class times

TR 2:00-3:20 PM, 150 Math Building

Web page

www.math.buffalo.edu/~badzioch/mth620

Course description

The course will build on the material covered by MTH 619 in the fall semester. The topics I plan to discuss include: algebraic extensions and the Galois theory, algebraic spaces, noetherian rings, modules over rings, elements of homological algebra. Some further notions of category theory should also naturally appear.

Textbook

Serge Lang, *Algebra, Revised Third Edition*

The scope of the course should correspond roughly to chapters III, V, VI, IX, X, XVI, XX (skipping some topics, expanding on some others and possibly rearranging the order in which they are presented).

Homework

Homework problems will be posted on the course website on Thursday every other week.

There will be no exams for this course. The final grade will be based entirely on the homework scores.