

Course Information

Office: 266 Lockett Hall
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Office hours: Wed. 2:30–4:30pm or by appointment

Textbook. For the bulk of the semester, we will follow the book
Larry C. Grove, *Algebra*, Academic Press, New York, 1983. Republished by Dover Publications,
Minneola, NY, 2004.

For a handful of topics, I will distribute photocopied notes from other sources.

Course outline. A tentative schedule for the semester is as follows:

Field theory and Galois theory (Chapter III)	4 weeks
Categories and functors	1 week
More on modules and noetherian rings (parts of Chapters II & IV)	2 weeks
Structure of rings and algebras (Chapter V)	3 weeks
Group representations (Chapter VI.8)	2 weeks
Multilinear algebra	1 week
Other topics	1 week

Website. All class materials will be available on *Blackboard*.

Homework. Problem sets (usually consisting of 3–5 problems) will be assigned and collected every week. The assignments will be posted on *Blackboard*. Please check the website frequently to make sure you don't miss an assignment. Typically, only one or two problems will be graded each week.

Exam. There will be a two-hour final exam on Wednesday, May 7, 3:00pm–5:00pm.

Grading. The final grade will be computed as follows: 80% homework, 20% final exam.