

Course Information

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Office hours: Fri. 2pm–3pm

If you cannot make it to my office hours, you may arrange to meet with me at another time by appointment.

Course outline. For the bulk of the semester, we will follow the book

Larry C. Grove, *Algebra*, Academic Press, New York, 1983. Republished by Dover Publications, Mineola, NY, 2004.

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

Homework. Problem sets (usually consisting of 3–5 problems) will be assigned and collected every week. All the homework exercises will be posted on Moodle.

Exam. There will be a two-hour final exam on Friday, May 11, 10:00am–12:00noon.

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