

## Math 503, Fall 2012

Instructor: Joseph Lipman, Math 750, 494-1994. < [www.math.purdue.edu/~lipman](http://www.math.purdue.edu/~lipman) >

Office hours: M 4:30–5:30, F 4–5. Other times by appointment only.

Grader: Youngsu Kim , MA639, kim455ATpurdue.edu Office hour: Mondays, 2–3p.m.

Grading: Weekly homework: 35%; midterm (early October): 25%; final: 40%.

Text: Allan Clark, *Elements of Abstract Algebra*, Dover.

There are numerous other Algebra texts in the library—e.g., *Algebra*, by M. Artin—with alternative treatments of material, illuminating examples, etc.

Historical development (on reserve in Library):

N. Bourbaki, *Elements of the History of Mathematics*.

Prerequisites:

- Basic concepts of linear algebra (vector space, basis, dimension . . .).
- At least one semester of undergraduate-level abstract algebra (beyond linear algebra).
- Hunger to learn.

Course outline:

Chapters 1, 2, 3 and 5, plus supplementary material, as time permits.