

Math 120B Suggested Syllabus

Text: *A First Course in Abstract Algebra*, Fraleigh

Lecture	Section	Topic
1	18	Introduction to Rings and Fields
2	18	Cont.
3	18	Cont.
4	19	Integral Domains
5	19	Cont.
6	20	Fermat's and Euler's Theorems
7	20	Cont.
8	21	Fields of Fractions (<i>Optional</i>)
9	22	Rings of Polynomials
10	22	Cont.
11	22	Cont.
12	23	Factoring Polynomials over a Field
13	23	Cont.
14		Review
15		Midterm
16	26	Homomorphisms and Factor Rings
17	26	Cont.
18	26	Cont.
19	27	Prime and Maximal Ideals
20	27	Cont.
21	29	Field Extensions
22	29	Cont.
23	29	Cont.
24	30	Vector Spaces
25	31	Algebraic Extensions
26	31	Cont.
27	31	Cont.
28	45	Unique Factorization Domains (<i>Optional</i>)
29		Review