

MATH 120: MODERN ALGEBRA

SYLLABUS - SPRING, 2008

Text:

- Dummit and Foote, **Abstract Algebra**, 3rd edition

Exams:

- **Midterm** : Tuesday, May 6 , in class
- **Final Exam**: Take home, given out in class on Tuesday, June 3 due Monday, June 9.

Week of April 1

Chapter 1, Introduction to groups

Week of April 8

Chapter 2, Subgroups

Week of April 15

Chapter 3, Quotients and homomorphisms

Week of April 22

Chapter 4, Group Actions

Week of April 29

Chapter 4, continued: The Sylow Theorems

Week of May 6

Midterm Exam Tues. May 6

Topics from Chapters 5 and 6: Finitely generated abelian groups

Week of May 13

Chapter 7: Rings

Week of May 20

Chapter 7, continued, and Chapter 8: Chinese Remainder theorem, Principal Ideal Domains

Week of May 27

Chapter 8, continued: Unique Factorization Domains

Review

Week of June 3

Review

Take home Final Exam June 3 - June 9.