

MODERN ALGEBRA, II
MATH 6303, Spring 2008

Time and location: 1–2:30 TTH, in 301 AH.

Instructor: J. Hausen, PGH 666, 713–743–3479, hausen@math.uh.edu

Office Hours: 11:30–12:30 TTH, and by appointment.

Prerequisites: MATH 6302 or equivalent.

Text: P.B. Bhattacharya, S.K. Jain, and S.R. Nagpaul, BASIC ABSTRACT ALGEBRA, Second Edition, Cambridge University Press, ISBN: 0-521-46081-6 (hardback), 0-521-46629-6 (paperback).

This is the second half of a two-semester sequence on Modern Algebra. Topics to be covered include Unique Factorization Domains, Principal Ideal Domains (PIDs), and Euclidean Domains (Chapter 11 of the text); Field Theory (Chapters 15, 16, and 17 of the text); and Finitely Generated Modules over PIDs (Chapter 21 of the text). The course will be taught lecture style. Homework assignments will be an integral part of the course.