

MATH 341: Abstract Algebra Textbook: Algebra Pure & Applied, Papantonopoulou Instructor: George Voutsadakis Office: CAS 206J Phone: 635-2667 Email: gvoutsad@lssu.edu URL: http://pigozzi.lssu.edu/WWW/TEACH/LSSU341S03/LSSU341S03.html Office hours: MTWRF 4:00 - 4:50

From the Catalog: An Introduction to congruences, groups, subgroups, quotient groups, fundamental homomorphism theorems, Sylow theorems.

Prerequisites: Math 215 with a grade of C or better.

Course Objectives:

Two of the basic theories constituting the subject of abstract algebra will be introduced: the theory of groups and the theory of rings. In group theory, alongside the notion of group, group homomorphisms, direct products of groups and abelian groups will be the main objects of study. In ring theory, alongside the notion of a ring, ring homomorphisms and some notions pertaining specifically to rings of polynomials (as time permits) will be studied. The student will also familiarize him/herself with formal proofs in a pure and abstract setting.

SYLLABUS FOR SPRING 2003: TR 2:00 - 3:20

_	Week	Tuesday	Thursday
-	1	0.1 - 0.2	0.2 - 0.3
	2	0.3 - 0.4	0.4 - 0.5
	3	1.1	EXAM 1
	4	1.1	1.2
	5	1.3	1.4
	6	1.4	2.1
	7	2.2	EXAM 2
	8		
	9	2.3	2.4
	10	2.5	3.1
	11	3.2	3.3
	12	3.4	EXAM 3
	13	6.1	6.2
	14	6.3	7.1
	15	7.2	EXAM 4

Final Exam: Monday, April 28, 3:00-5:00