

Math 4310: Introduction to Algebraic Structures

UMEP Summer 2009

Instructor: Amanda Cangelosi

Email: Please use Blackboard Vista for course correspondence. If Blackboard is experiencing problems, then email Amanda.C@aggiemail.usu.edu

Course Meetings: Tuesday & Thursday, 4:15-7:15, June 23-August 6.

Credits: 3 semester credits

Prerequisites: The equivalent of 6 semester hours of upper level mathematics courses

Textbook: *Contemporary Abstract Algebra*, Sixth Edition, by Joseph A. Gallian

Course Content: This course serves as an introduction to algebraic structures, with an emphasis on group theory (Chapters 0-4, 6 of Gallian). A brief discussion of ring and field theory will be included.

Assessment: Homework assignments and exams (take-home, open book, open classmates; see schedule below). Roughly, your grade will be weighted 40% homework and 60% exams.

Date	In Class Topic	At Home	Due Date
6/23	Overview; Ch.0	HW0: Ch.0(#1)	6/25
6/25	Ch.0	HW1: Ch.0(2,3,4,7,8)	6/30
6/30	Ch.0, Ch.1	HW2: Ch.0(9,13,16); Ch.1(1,2,3,4)	7/2
7/2	Ch.1, Ch.2	HW3: Ch.0(49,50,51); Ch.1(5.6.7,8)	7/7
7/7	Ch.2	mini-EXAM 1: Ch.0-1	7/9
7/9	Ch.2, Ch.3	HW4: Ch.2(1,2,3,4,8,9,15,25)	7/14
7/14	Ch.3	HW5: Ch.3(1,2,3,4,5,6,7,8,9)	7/16
7/16	Ch.4	Breathe & Catch-up; Recycle mini-Exam 1	7/21
7/21	Ch.4	EXAM 2: Ch.2-3	7/28
7/23	Ch.4	Continue Exam 2	7/28
7/28	Ch.6	HW6: Ch.4(1,2,3,4,5,6,7,9,11)	7/30
7/30	Ch.6	HW7: Ch.6(1,2,3,4,5,6,19,20)	8/4
8/4	Overview of Ch.7 & 9	Breathe & Catch-up; Recycle Exam 2	8/6
8/6	Overview Rings & Fields	EXAM 3: Ch.4&6	8/11

Note: In coordination with the Disability Resource Center, reasonable accommodations will be provided for qualified students with disabilities. If you need accommodations because of special exceptionalities, please contact Amanda to make arrangements. Accommodations and alternative format print materials (e.g., large print, audio, diskette or Braille) are available through the Disability Resource Center, located in Taggart Student Center room 104, phone number 797-2444.