

Modern Algebra II

Math 5530.001, Spring 2013, MW 12:30-1:50, GAB 406

Professor: Dr. Conley, GAB 419, 565-3326, conley@unt.edu. Assignments and announcements will be posted at www.math.unt.edu/~conley.

Office Hours: MW 10:30-12:30 and by appointment.

Text: The text is *Abstract Algebra*, third edition, by Dummit and Foote.

Exams, Homework, and Grading: There will be a 150 point midterm on Wednesday, March 6, and a comprehensive 225 point final on Wednesday, May 8, 10:30-12:30. There will be thirteen problem sets worth 10 points each, due at the beginning of Wednesday lectures. There will be no make-up exams, and late homework will be worth half-credit.

Disabled Students: Please let me know of your disability at the end of the first lecture.

Topics: We will begin with Chapters 7-9, on rings, fraction fields, EDs, PIDs, UFDs, and polynomial rings. Then we will move to Chapters 13-14 on fields and Galois theory. Any remaining time will be spent on Chapters 10-12, on modules, vector spaces, modules of PIDs, and canonical forms.

Problem Set 1 (due Wednesday, January 23):

Section 7.1: 3, 6, 9, 16, 21

Section 7.2: 3-4

Section 7.3: 6-7, 12ab, 13-14, 20-22, 25-26, 29-32, 34, 36-37

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MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
1/14	1/15	1/16	1/17 Last day to add/swap classes.	1/18
1/21 MLK Holiday	1/22 Math Lab opens	1/23 HW 1	1/24	1/25
1/28 Census date Last day to drop for refund.	1/29	1/30 HW 2	1/31	2/1
2/4	2/5	2/6 HW 3	2/7	2/8
2/11	2/12	2/13 HW 4	2/14	2/15
2/18	2/19	2/20 HW 5	2/21	2/22 Automatic W deadline
2/25 WF for non-attendance now possible	2/26	2/27 HW 6	2/28	3/1
3/4	3/5	3/6 Midterm Exam	3/7	3/8
3/11 Break week	3/12	3/13	3/14	3/15
3/18	3/19	3/20 HW 7	3/21	3/22
3/25	3/26 Drop day	3/27 HW 8	3/28	3/29
4/1	4/2	4/3 HW 9	4/4	4/5
4/8 I now requestable	4/9	4/10 HW 10	4/11	4/12
4/15	4/16	4/17 HW 11	4/18	4/19 Last non-attendance WF day
4/22	4/23	4/24 HW 12	4/25	4/26
4/29	4/30	5/1 HW 13	5/2	5/3 Math Lab closes
5/6	5/7	5/8 Final Exam: 10:30 - 12:30	5/9	5/10