

## Modern Algebra II

Math 5530.001, Spring 2014, MWF 12:00-12:50, Auditorium 201

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

**Office Hours:** MWF 11:00-12:00, M 1:00-2:00, and by appointment.

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

**Exams, Homework, and Grading:** There will be a 150 point midterm on Wednesday, March 7, and a comprehensive 225 point final on Wednesday, May 7, 10:30-12:30. There will be thirteen problem sets, usually worth 10 points each, due at the beginning of Friday lectures. There will be no make-up exams, and late homework will be worth half-credit.

**Disabled Students:** Contact me after 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 Friday, January 24):

*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
1/13 First class	1/14	1/15 Skype Class: bring mic! CSS staff arrives 11:50	1/16 Last day to add/swap a class	1/17 Dr. Shepler substitutes
1/20 MLK Holiday	1/21	1/22	1/23	1/24 HW 1
1/27 Last day to drop for refund	1/28	1/29	1/30	1/31 HW 2
2/3	2/4	2/5	2/6	2/7 HW 3
2/10	2/11	2/12	2/13	2/14 HW 4
2/17	2/18	2/19	2/20	2/21 HW 5
2/24	2/25	2/26	2/27	2/28 HW 6
3/3	3/4	3/5	3/6	3/7 <b>Midterm Exam</b>
3/10 <b>Break Week</b>	3/11	3/12	3/13	3/14
3/17	3/18	3/19	3/20	3/21 HW 7
3/24	3/25 Drop Date	3/26	3/27	3/28 HW 8
3/31	4/1	4/2	4/3	4/4 HW 9
4/7 Incomplete requestable	4/8	4/9	4/10	4/11 HW 10
4/14	4/15	4/16	4/17	4/18 HW 11
4/21	4/22	4/23	4/24	4/25 HW 12
4/28	4/29	4/30	5/1	5/2 HW 13
5/5	5/6	5/7 <b>Final Exam: 10:30-12:30</b>	5/8	5/9

S/MATH/WWW/Instructor/syllabuscalendar-1141

Note: for Skype classes, someone should log on to the classroom computer with their usual EUID and password, open Skype, and log in with my teaching Skype account. This is a Microsoft account, not a regular Skype account, so you might need to click “sign in with a different account” and choose “Microsoft account”. Once you get to the Microsoft account Skype sign in page, enter [conley@unt.edu](mailto:conley@unt.edu) and use GAB419teach! for the password.

Don't forget to bring the wireless microphone to class (either Chris Campbell or one of you will have it). Hold down the power button to turn it on, press it to toggle mute. To synchronize channels, unscrew the base, point base eye at the Shure transceiver in the computer rack, and push the big grey button on the right side of the transceiver.

I am almost certain that we will have absolutely no technical difficulties with any of this, but just in case, my cell number is 940 206 5035.