

## Modern Algebra I

Math 5520.001, Fall 2025, MW 12:00-1:20, Curry 210

**Professor:** Conley, GAB 419, conley@unt.edu

**Website:** [www.math.unt.edu/~conley](http://www.math.unt.edu/~conley)

**Office Hours:** Monday 4:00-5:00, Wednesday 1:30-2:30

**Text:** *Abstract Algebra*, 3<sup>rd</sup> edition, Dummit and Foote

### Exams, Homework, Grading:

- *Midterm:* 150 points, Wednesday, October 15
- *Final:* 230 points, comprehensive, Wednesday, December 10, 10:30-12:30
- *Quizzes:* There are 14 quizzes, worth 10 points each, one each Wednesday.
- The lowest 2 quiz scores will be dropped.
- There are no make-up exams or quizzes.
- Each week I will post practice problems to do as preparation for the quiz.

**Disabled Students:** See me at the end of the first lecture.

**Topics:** The text has six parts. The first four are on groups, rings, modules, and fields. In Math 5520 we will cover most of the part on groups and the beginning of the part on rings. Some of the main results we will see are Sylow's theorems, the simplicity of  $A_n$ , and the classification of finite abelian groups.

The second algebra core course, Math 5530, will be taught by Dr. Shepler in Spring 2026. It usually covers most of the part of the text on rings and selections from the parts on modules and fields.

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MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
8/18 First lecture	8/19	8/20 Quiz 1	8/21	8/22
8/25	8/26	8/27 Quiz 2	8/28	8/29
9/1 Labor Day: UNT closed	9/2	9/3 Quiz 3	9/4	9/5
9/8	9/9	9/10 Quiz 4	9/11	9/12
9/15	9/16	9/17 Quiz 5	9/18	9/19
9/22	9/23	9/24 Quiz 6	9/25	9/26
9/29	9/30	10/1 Quiz 7	10/2	10/3
10/6	10/7	10/8 Quiz 8	10/9	10/10
10/13	10/14	10/15 Midterm Exam	10/16	10/17
10/20	10/21	10/22 Quiz 9	10/23	10/24
10/27	10/28	10/29 Quiz 10	10/30	10/31
11/3	11/4	11/5 Quiz 11	11/6	11/7
11/10	11/11	11/12 Quiz 12	11/13	11/14
11/17	11/18	11/19 Quiz 13	11/20	11/21
11/24 No class	11/25 UNT closed all week	11/26 No class	11/27 Thanksgiving	11/28
12/1	12/2	12/3 Quiz 14	12/4	12/5 Reading Day
12/8	12/9	12/10 Final Exam: 10:30-12:30	12/11	12/12