

# MATH 6140: Algebra 2 (CU, Spring 2025)

MWF 9:05-9:55 am, DUAN G1B25

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Office: Math 310

Office hours: Monday 10-11 am in Math 310, Tuesday 2:30-3:30 pm on Zoom, and by appointment

Course website: <http://math.colorado.edu/~mayr/teaching.html>

**Course description.** We will cover the following topics:

- modules and vector spaces
- modules over principal ideal domains
- field theory
- Galois theory

**Prerequisites.** MATH 6130: Algebra 1

**Assignments.** Every Wednesday I will post homework problems on the website. Please submit solutions as pdf on Canvas before the beginning of class on the following Wednesday.

I encourage you to discuss homework problems. Your write-ups, however, have to be completed individually.

There are two take-home midterms in the week of February 17 and of March 31, as well as a final exam between May 3 and 6. All exams are closed-book.

Cheating on your assignments may result in a grade of 0. Please find the honor code of CU Boulder here <http://honorcode.colorado.edu/>

**Grading.** Your final grade will be determined by the scores of your homework, midterm, and final exam. To combine these items the following weights will be used:

Homework: 50%

Midterms: 25%

Final exam: 25%

Late homework will not be accepted. The 3 lowest homework scores will not count towards the final grade.

**Texts.** Abstract Algebra, 3rd ed., by Dummit and Foote (2003).

**University regulations.** I am happy to accommodate disabilities or religious observances, or a request that I address you with a different name or pronoun than my roster indicates. Please contact me as soon as possible.

For details on accommodations please see <http://disabilityservices.colorado.edu/>

For details on university policies please see <http://www.colorado.edu/policies>