

Abstract Algebra II

MATH 418 - Spring 2024

Lecture: MWF 1:00pm-1:50pm; 1047 Sidney Lu Mechanical Engineering Building

Textbook: David Dummit & Richard Foote; *Abstract Algebra*, 3rd Edition

Course website: https://andyhardt.github.io/418_S24/course_page.html

Instructor: Andrew Hardt (Office: CAB 69B; Email: ahardt@illinois.edu)

Office Hours: TBD, CAB 69B

Problem Sessions: TBD

The course website will be our primary resource for course information. Homework assignments and lecture notes will be posted there, as will updates to the syllabus and other information. You are responsible for all information and announcements posted there, as well as any made in class.

If you are auditing the class or if you want to register but are unable to, please email me so that I can make sure you get relevant course emails.

Prerequisites:

MATH 417 or equivalent experience. In particular, the material in Chapter 7 of Dummit & Foote is an important prerequisite.

Grading:

Course grades will be calculated using the following weights. Letter grades will be no stricter than A-: 90%, B-: 80%, C-: 70%, D-: 60%, but may be more lenient. Letter grades are only calculated for the entire semester; there are no letter grades for individual assignments.

Assignment	Percent of Total
Homework	25%
Midterm Exams	45% (15% each)
Final Exam	30%
Total	100%

Homework:

Homework assignments will be weekly, due at **9am on Wednesdays via Gradescope**. If you have not received an invite to the Gradescope course, please let me know immediately.

- Assignments must be neat and legible, and in correct mathematical style. Most problems require proofs, and your submissions are expected to be clear and well-justified.
- Problems should be correctly tagged, and points may be deducted if you don't do this.
- Typesetting your homework using LaTeX is recommended, and will gain you 2 bonus points per assignment.
- Each student's lowest homework grade will be dropped.
- **Lateness policy:** Each student may have up to two "misses", homework assignments submitted less than 24 hours after the deadline that are still eligible for full credit. Any homework submitted more than 24 hours past the deadline (even by one minute!) will receive no credit, as will any late assignment after the first two.

LaTeX Resources:

One free online resource for writing documents in LaTeX is [Overleaf](#). There is also a convenient tool called [Detexify](#) for identifying the commands for specific symbols. Overleaf has extensive documentation (with many good examples), but please feel free to contact me if you need further help. Although it is possible to draw diagrams in LaTeX, using a package called TikZ, you are also welcome to draw diagrams by hand and insert pictures.

Problem-Solving Sessions:

These sessions are a supplement to office hours and are intended to provide collaborative time to work in groups on homework assignments. While I will be present at these sessions, you should think of them primarily as a time to work with other students.

Exams:

There will be three evening midterm exams, plus a final exam.

Midterm 1: *TBD*

Midterm 2: *TBD*

Midterm 3: *TBD*

Final Exam: *Tuesday 5/7, 8:00am-11:00am, Location TBD*

Make-ups:

If you have a documented and legitimate reason for missing an exam (i.e., illness, a death in the family, athletic travel for UIUC, etc), please contact me as soon as possible to make arrangements. This will typically be dealt with by weighting later exams more heavily and dropping the missed exam, but the exact solution may depend on individual circumstances.

Academic Honesty:

Students are expected to follow the [University of Illinois student conduct code](#). While collaboration on homework assignments is allowed (and encouraged!), you must write up your solutions independently. All exams should reflect your own original work, with no consultation of outside resources or collaboration.

Disability Accommodations:

The University of Illinois at Urbana-Champaign is committed to providing equal access to educational opportunities via the Division of Disability Resources & Educational Services (DRES). If you feel that you may have a disability, you can contact DRES via e-mail at disability@illinois.edu or by phone at (217)-333-1970 to discuss possible accommodations. If you have existing accommodations through DRES, you should contact me as soon as possible to discuss how those accommodations will be implemented in this course.