

MATH 845: Algebra II, Fall 2024

Basic Information

Welcome to MATH 845: Algebra II! The following is some basic information.

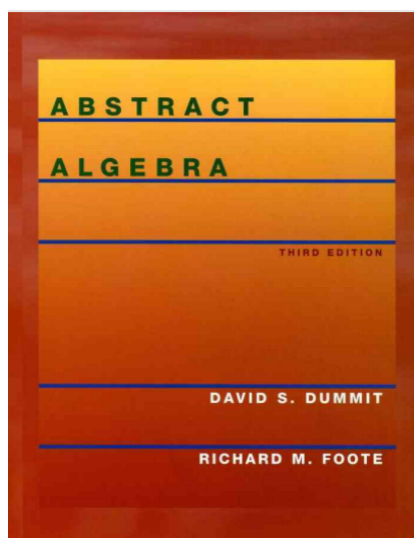
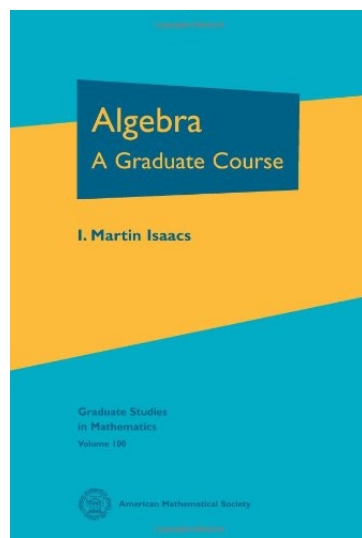
Instructor: Shuxing Li, email: shuxingl@udel.edu

Lectures: In person, Tuesdays and Thursdays, 3:55 pm - 5:15 pm, 234 Purnell Hall.

Office hours: Tuesdays and Thursdays, 2:45 pm - 3:45 pm, 507 Ewing Hall.

Textbook: Algebra: A Graduate Course, by I. Martin Isaacs, American Mathematical Society, ISBN: 978-0-321-98238-4.

Reference book: Abstract Algebra, third edition, by David Dummit and Richard Foote, John Wiley & Sons, ISBN: 0-471-43334-9



In the following, **I will introduce the four modules of the course**, namely, lectures, office hours, assignments, midterms and final.

Four Modules of the Course

Lectures

The lecture time serves as the primary opportunity for us to convene and engage in discussions about the course content. I will do my best to make the lecture time valuable and beneficial for everyone.

Office Hours

Office hours will be on Tuesdays and Thursdays, 2:45 pm - 3:45 pm, 507 Ewing Hall (excluding the week of March 25th due to the spring break). You are welcome to make alternative appointment by email. These office hours are designed to address any questions related to the course, including queries about assignments, midterms, and other related topics.

Biweekly Assignments

There are 6 weekly assignments throughout the semester. The assignments will be distributed and collected using Canvas. you have about two weeks to work on each of them. Each assignment counts for approximately 10% of your final score. See the Course Schedule at the end for detailed dates of posting and submission.

Each assignment contains about ten questions to help you digest the class materials, practise the mechanisms and build up connections among various concepts. I would like to emphasize that the assignments are the **minimum amount** of work you should be doing. **I encourage you to form study group and work together on the assignment problems, so that in the end you are able to solve the exam questions independently.** It is great experience to study and do mathematics with other people. If a problem is solved by a group of people, everyone from the group has to write the solution by oneself. At the same time I encourage you to work on as many problems as you can.

Midterms and Final

There are two midterms and one final exam. The two midterms will be in the following two weeks.

- Midterm 1: Oct-3
- Midterm 2: Nov-14

The midterms may be conducted either in-person or as take-home exams. No make-up session for midterms is available. The final will be in person. The time and location for the final exam is to be determined.

A recommended strategy for exam preparation is to solve assignment problems, exercises in the textbook, and those in the reference book.

Mark Distribution

60% for 6 Assignments (highly valuable exercises)

10% for Midterm 1

10% for Midterm 2

20% for Final exam

Note that the above distribution is subject to change.

Having questions?

Please consider making a good use of my office hours as well as the Discussions tab on Canvas. Questions posted on the Discussion tab may receive broad attention and might be answered by me or your classmates and the answers will be available to the whole class.

Course Schedule

Table 1: **Schedule of Classes, Office Hours, Assignments, and Exams (subject to change)**

Class	Office Hour	Assignments Posting	Assignments Submission	Date	Comment
1	✓			Tue Aug-27	
2	✓			Thu Aug-29	
		Assignment 1		Fri Aug-30	
3	✓			Tue Sep-3	
4	✓			Thu Sep-5	
5	✓			Tue Sep-10	
6	✓		Assignment 1	Thu Sep-12	
		Assignment 2		Fri Sep-13	
7	✓			Tue Sep-17	
8	✓			Thu Sep-19	
9	✓			Tue Sep-24	
10	✓		Assignment 2	Thu Sep-26	
		Assignment 3		Fri Sep-27	
11	✓			Tue Oct-1	Week of Midterm 1
12	✓			Thu Oct-3	
13	✓			Tue Oct-8	
14	✓		Assignment 3	Thu Oct-10	
		Assignment 4		Fri Oct-11	
15	✓			Tue Oct-15	
16	✓			Thu Oct-17	
17	✓			Tue Oct-22	
18	✓		Assignment 4	Thu Oct-24	
		Assignment 5		Fri Oct-25	
19	✓			Tue Oct-29	
20	✓			Thu Oct-31	
21	✓			Tue Nov-5	
22	✓		Assignment 5	Thu Nov-7	
		Assignment 6		Fri Nov-8	
23	✓			Tue Nov-12	Week of Midterm 2
24	✓			Thu Nov-14	
25	✓			Tue Nov-19	
26	✓		Assignment 6	Thu Nov-21	
				Tue Nov-26	Week of Fall Break
				Thu Nov-28	

27	✓			Tue Dec-3	
28	✓			Thu Dec-5	
29	✓			Tue Dec-10	
				time and location TBD	Final Exam