

Math 504: Abstract Algebra I

Fall 2018

Instructor	Jason McCullough 452 Carver Hall 4-8150 jmccullo@iastate.edu
Teaching Assistant	Erich Jauch 468 Carver Hall ecjauch@iastate.edu
Office Hours	JM: MWF 1:10pm-2:00pm or by appointment EJ: Tu 1:00pm-3:00pm, Th 2:00pm - 4:00pm
Textbook	"Abstract Algebra," by Dummit & Foote, 3 rd edition, Wiley, 2003

Content

In this class we will make a thorough study of groups and rings. Since this is a "qual class," we will emphasize the material on the qualifying exam syllabus. The spring semester will continue with modules and vector spaces, and the theory of fields and roots of polynomials.

Referring to the text, we will cover most of Chapters 1-5 and 7-9.

Assessment

There will be weekly homework assignments. While you are encouraged to work with the other students, it is important that you write up your solutions independently. I don't want to see multiple papers that are carbon copies of each other. It is very important that you do the homework conscientiously and consistently.

We will have an in-class midterm and a final exam. These are good practice for the qualifying exam.

Course Websites

Grades and homework will be available via Canvas. There is a tentative schedule below.

Grading scheme

Homework	60%
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Midterm Exam	10%
Final Exam	30%

Disability Accommodations

If you have a documented disability and anticipate needing accommodations in this course, please make arrangements to meet with me soon. Please request that a Disability Resources staff send a SAAR form verifying your disability and specifying the accommodation you will need.

Tentative Schedule

Week (week of)	Monday	Wednesday	Friday
1 (August 20)	0.1,0.2	0.3	1.1
2 (August 27)	1.2,1.3	1.4-1.6	1.7
3 (September 3)	Labor Day	2.1	2.2
4 (September 10)	2.3,2.4	2.5	3.1,3.2
5 (September 17)	3.3	3.4	3.5
6 (September 24)	4.1-4.3	4.4	4.5
7 (October 1)	4.5	4.6	5.1,5.2
8 (October 8)	5.3,5.4	Midterm Exam	5.5
9 (October 15)	6.1	6.3	7.1
10 (October 22)	7.2	7.3	7.3
11 (October 29)	7.4	7.5	7.6
12 (November 5)	8.1	8.2	8.3
13 (November 12)	8.3	9.1	9.2
14 (November 19)	Thanksgiving	Holiday	Break
15 (November 26)	9.3	9.4	9.4
16 (December 3)	9.5	9.6	9.6
17 (December 10)	Final	Exam	Week