

MAS 5311: Introduction to Algebra I

Fall 2020

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Class meets MWF 9:35–10:25 via Zoom

Office hours (via Zoom)

Mondays and Fridays 8th period (3:00–3:50), Wednesdays 4th period (10:40–11:30), or by appointment.

Textbook

Abstract Algebra (Third Edition) by Dummit and Foote

Exams

Thursday, October 15, 7:00–9:00 PM

Thursday, December 17, 12:30–2:30 PM

Syllabus

This course is an introduction to abstract algebra at the graduate level. The basic objects we will study are groups, rings, fields, modules, and vector spaces. Although previous exposure to abstract algebra is helpful, we will develop everything from first principles. The writing of clear and rigorous proofs will be emphasized.

Homework

Homework problems will be assigned and graded on a regular basis. Although you are encouraged to discuss these problems with your classmates, the work you turn in for grading should be entirely your own. In particular, no collaboration is allowed on write-ups of solutions.

Grading

The homework will count 40%, the midterm will count 25%, and the final will count 35%.