Syllabus for MTH 461:
Survey of Modern Algebra

University of Miami, Spring 2026

`www.math.miami.edu/~cscaduto/teaching/461-spring-2026/`

Instructor:

Prof. Christopher Scaduto
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Office: Ungar 525
Office hours: 10am-11am Tuesday, 8am-9am Thursday, or by appointment

Class time and location:

Tuesday and Thurday 12:30 PM - 1:45 PM, Dooly Memorial 118

References: There is no official textbook for the course. I will provide typed notes on the course web page at the URL above that reflect much of what is covered in lecture, but possibly not everything. Take notes! References that cover some of the material in this course include "Abstract Algebra: Theory and Applications" by Judson, located at `http://abstract.ups.edu/aata/aata.html`, and the (currently low-cost) textbook "A Book of Abstract Algebra: Second Edition" by Pinter.

Homework:

There will be homework problems assigned roughly every week. They will be posted on the course webpage, whose URL is above; email notifications will be sent when a new assignment is posted. Homework, and in particular thinking about problems on your own, is perhaps the most important part of learning the material. I also strongly encourage you to come to office hours to discuss the material to enhance your understanding.

Grading:

There will be 3 exams (including the final). Homework is 25% and each exam is 25%.

Writing Credit:

You have the option of receiving writing credit in this course. This involves the completion of a writing assignment. For details, please come to office hours.