

MATH 5104 (Fall 2021, in-person)

Lie Algebras

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Office Hours: Thursdays 6pm in Zoom, or by appointment.

Method of Evaluation:	Home Assignments	25%
	Midterm	25%
	Final Exam	50%

Midterm Date: Tuesday November 2, in class.

Prerequisite: Linear Algebra

Topics Covered:

- Definition and properties of Lie algebras
- Universal enveloping algebra
- Poincaré-Birkhoff-Witt theorem
- Representations of Lie algebras
- Structure of simple Lie algebras

Recommended textbook

J.Humphreys, *Introduction to Lie algebras and representation theory*