

Algebraic Structures in Coding Theory

Last Updated: Wed, 12/31/2025

Course prefix: MATH

Course number: 4012

Section: A

CRN

34805

Instructor first name: Hunter

Instructor last name: Lehmann

Semester: Spring

Academic year: 2026

Course description:

Introduction to linear error correcting codes with an emphasis on the algebraic tools required, including matrices vector spaces, groups, polynomial rings, and finite fields.

Academic honesty/integrity statement:

Students are expected to maintain the highest standards of academic integrity. All work submitted must be original and properly cited. Plagiarism, cheating, or any form of academic dishonesty will result in immediate consequences as outlined in the university's academic integrity policy.