

MATH 0280 - Introduction to Matrices and Linear Algebra

SYLLABUS

Text: *Linear Algebra, A Modern Introduction*, Third Edition, by David Poole.

Course Objectives: Students who complete Math 0280 are expected to have mastered the fundamental ideas of linear algebra and to be able to apply these ideas to a variety of practical problems. More specifically, in Math 0280 you will be expected to:

- explore and learn the core concepts associated with systems of linear equations, manipulation of matrices, linear transformations, orthogonality, and eigenvalues/eigenvectors;
- begin to think abstractly about certain of these topics;
- understand how these ideas can be used to solve problems and compute things.

Assessment: Your grade will be determined by homework (20%), two midterms (20% each), and a departmental final exam (40%).

Disability Concerns: If you have a disability for which you are or may be requesting accommodation, you are encouraged to contact both your instructor and Disability Resources and Services, 216 William Pitt Union, (412) 648-7890/(412) 383-7355 (TTY), as early as possible in the term. DRS will verify your disability and determine reasonable accommodations for this course.

Academic Integrity: The University of Pittsburgh Academic Integrity Code states that “A student has an obligation to exhibit honesty and to respect the ethical standards of the academy in carrying out his or her academic assignments.” Students are expected to adhere to the Academic Integrity Code, and violations of the code will be dealt with seriously.

Schedule:

Introduction

Sections 1.0-1.3; Sections 2.0-2.4; Sections 3.0-3.3

Review

Midterm 1

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Sections 3.5-3.7; Sections 4.1-4.3

Review

Midterm 2

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Sections 4.4, 5.0, 7.3; Sections 5.2, 5.3

Catch-up and final review

Departmental Final Exam