The Mathematics department has authorized the instructors of Math 265 to use either of the two books listed below at their discretion.

MATH 265 Elementary Linear Algebra

Course Outline

Chapter	Topics	Number of Weeks
Chapter 1	Linear Equations in Linear Algebra Sections 1 to 9	2.0
Chapter 2	Matrix Algebra Sections 1, 2 and 3	1.5
Chapter 3	Determinants Sections 1 and 2 (Section 3 optional)	1.0
Chapter 4	Vector Spaces Sections 1 to 7	3.0
Chapter 5	Eigenvalues and Eigenvectors Sections 1 to 5	2.5
Chapter 6	Orthogonality and Least Squares Sections 1 to 5	2.0
Chapter 7	Symmetric Matrices and Quadratic Forms Sections 1 and 2	1.0
Exams		1.0

Textbook: <u>Linear Algebra and its Applications</u>, 3rd Edition, by David C. Lay. (The 4th Edition has the same course outline.)

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MATH 265 Elementary Linear Algebra

Course Outline

Chapter	Topics	Number of Weeks
Chapter 1	Systems of Linear Equations and Matrices Sections 1 to 7	1.5
Chapter 2	Determinants All Sections	1.5
Chapter 3	Euclidean Vector Spaces All Sections	1.5
Chapter 4	General Vector Spaces Sections 1 to 10	3.0
Chapter 5	Eigenvalues and Eigenvectors Sections 1 to 4	2.0
Chapter 6	Inner Product Spaces Sections 1 to 4	2.0
Chapter 8	Linear Transformations All Sections	1.5
Chapter 7	Additional Topics Diagonalization and Quadratic Forms	
Exams		1.0

Textbook: <u>Elementary Linear Algebra</u>, 10th <u>Edition</u>, by Howard Anton.

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