

Tentative Schedule of Lectures and Examinations

Date	Topic
W Sep. 3	Introduction: Euler's Theorem on the Axis of Rotation n-dimensional Euclidean space
F Sep. 5	
M Sep. 8	Linear space structure in Euclidean space
W Sep. 10	
F Sep. 12	
M Sep. 15	Subspaces
W Sep. 17	Subspaces (continued): Spans and generating sets
F Sep. 19	Generating sets (continued): Linear independence and bases
M Sep. 22	Bases and dimension
W Sep. 24	Bases and coordinates
F Sep. 26	Euclidean inner product and norm
M Sep. 29	Orthogonality
W Oct. 1	Linear transformations between Euclidean spaces
F Oct. 3	
M Oct. 6	Matrix representation of a linear transformation (continued)
W Oct. 8	Matrix algebra
F Oct. 10	Matrix algebra (continued)
M Oct. 13	Invertible matrices
W Oct. 15	Review
F Oct. 17	Exam 1
M Oct. 20	<i>Fall Recess</i>
W Oct. 22	Linear transformations
F Oct. 24	Dimension theorem for linear transformations
M Oct. 27	Matrix representation of linear transformations
W Oct. 29	Compositions of linear transformations and matrix multiplication
F Oct. 31	Orthogonal Transformations

Date	Topic
M Nov. 3	Orthogonal transformations (continued)
W Nov. 5	Areas, volumes and determinants
F Nov. 7	Areas, volumes and determinants (continued)
M Nov. 10	Orientation
W Nov. 12	Orientation (continued)
F Nov. 14	Geometric transformations
M Nov. 17	Similarity and diagonalization
W Nov. 19	Diagonalization (continued)
F Nov. 21	The eigenvalue problem
M Nov. 24	The eigenvalue problem (continued)
W Nov. 26	Problems
F Nov. 28	<i>Thanksgiving Recess</i>
M Dec. 1	Euler's Theorem on the Axis of Rotation Theorem
W Dec. 3	Review
F Dec. 5	Exam 2
M Dec. 8	Review
W Dec. 10	Review
M Dec. 15	Final Exam