

MthSc 853 — Fall 2009 — Goddard

Linear Algebra and Matrix Theory

MWF 10:10-11:00, 307 Daniel

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Office Hours. 11:00–12:00 Monday and Wednesday, and whenever needed.

Goal. To learn the theory of linear algebra and the methods of matrix analysis and to solve related problems.

Content.

- vector spaces; linear transformations; eigenvalues and eigenvectors; matrices and determinants; linear equations
- inner product spaces; operators; quadratic forms; spectral decomposition
- applications; computational issues

Grade. Your final Numerical mark will be determined by:

- Two Tests: totaling 30%
- Assignments: 25%
- Quizzes: 10%
- Final cumulative exam: 35%

The cut-off for an A will be between 88 and 90, probably the higher. The cut-off for a B will be between 77 and 80, probably close to the higher. The cut-off for a C will be between 66 and 70, probably close to the lower end.

Assignments. Due most Mondays; these will typically include problems with a range of difficulty.

Tests. Wednesday September 23, and November 4.

Quizzes. These will be most Fridays. (Some are meant to be challenging.)

Notes/Text. Axler, Linear Algebra Done Right (2nd edn)
Handouts will be archived at www.cs.clemson.edu/~goddard/handouts/math853.

For more rules and regulations, see reverse. In particular, note academic honesty policy.