

*Montgomery College - Department of Mathematics
Rockville Campus*

**MA284 – Linear Algebra
4 Semester Hours**

Description Basic concepts of linear algebra including vector spaces, linear equations and matrices, determinants, linear transformations, similar matrices, eigenvalues, and quadratic forms.

MA284 meets for 5 hours each week.

Prerequisites A grade of C or better in MA 182 or equivalent or consent of department.

Topics

- I. Linear equations, transformations
- II. Matrix Algebra
- III. Determinants
- IV. Vector Spaces
- V. Eigenvalues and eigenvectors
- VI. Orthogonality and least squares
- VII. Symmetric matrices and quadratic forms

Text *Linear Algebra and its Applications* (3rd edition) , by David C. Lay, Addison Wesley