

Department of Mathematics and Statistics
McGill University
Math 247B
Course Outline

INSTRUCTOR: Professor J. Labute
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TEXT: S. Lipschutz, *Linear Algebra*, Schaum's Outline Series, McGraw-Hill.

SYLLABUS: Fields, Linear Equations, Matrices, Vector Spaces, Linear Mappings, Dual Spaces, Bilinear and Quadratic Forms, Hermitian Forms, Determinants, Diagonalizable Operators, Jordan Canonical Form, Inner Product Spaces, Spectral Theorem, Applications.

ASSIGNMENTS: There will be 6-8 assignments .

MIDTERM TEST: There will be one class test which will be held shortly before or after the midterm break.

FINAL EXAM: There will be a three hour final exam; no calculators will be allowed.

GRADING: If A = assignment mark, T = test mark, E = exam mark and F = final mark (all out of 100), then $F = .1A + .2T + .7E$. No credit will be given for doing "extra work". There will be a supplemental exam given in August 96.