

JAN 18 2001

GRANDE PRAIRIE REGIONAL COLLEGE
DEPARTMENT OF COMPUTING, MATHEMATICS
and STATISTICAL SCIENCES
MATHEMATICS 1020 A3
WINTER 2001

Title: Applied Linear Algebra

Prerequisite: Mathematics 1000

Schedule:

Lectures	M W	10:00 to 11:15 in J229
Seminars AS2	R	14:30 to 15:20 in J229
Seminars AS1	R	15:30 to 16:20 in J229

Instructor: Thomas Kaip
Office J212
Extension 2963
Email kaip@gprc.ab.ca

Textbooks: David C. Lay; Linear Algebra and Its Applications (2nd Ed)
James Stewart, Calculus (4th Edition)

Topics: Systems of Linear Equations
Linear Combinations, Spanning and Independence
Matrix algebra
Determinants
Vector Spaces and Subspaces
Basis and Dimension
Orthogonality and Gram-Schmidt
Complex Numbers
Eigenvalues and Eigenvectors
Introduction to Differential Equations

Grading:

Assignments	10%
Quizzes	15%
Exam I	25% (February 05, 2001)
Exam II	25% (March 12, 2001)
Exam III	25% (April 11, 2001)

Assignments: Assignments will be given following the lecture and due the following day.

Quizzes: Quizzes will be held in the latter 30 minutes of the seminar. There will be a total of n Quizzes. The best n-1 quizzes will count towards your grade.

Calculators: Calculators WILL NOT be allowed in quizzes and exams.