Mathematics 213   Honours Linear Algebra I

(see Course Descriptions for the applicable academic year: http://www.ucalgary.ca/pubs/calendar/)

Syllabus

Topics	Number of Hours
Systems of linear equations, matrices, reduced row echelon form matrix multiplication, inverses.	8
Vector spaces, subspaces, bases and dimension.	4
Linear transformations, kernel and image, isomorphism, matrix representation, linear functionals.	8
Determinant functions, permutations, uniqueness of determinants, properties of determinants.	8
Eigenvalues, eigenvectors, characteristic polynomials.	6
Optional topics.	2
TOTAL HOURS	36

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2009:07:01
KEB