Math 2275

Linear Algebra II

Winter 2011

Instructor: Greg Lee   **Office:** RB 2005 **Phone:** 346-7867 **Email:** glee@lakeheadu.ca

Class Times: MWF 2:30-3:30 in RB 3044

Office Hours: Monday and Wednesday, 1:30-2:20

Text: *Linear Algebra and Its Applications, 3rd edition update*, by D. C. Lay

Material to be Covered: This course picks up where Linear Algebra I leaves off. The main topics include the dimension of a vector space, the rank of a matrix, eigenvalues and eigenvectors, diagonalization, orthogonality, inner products, least squares, symmetric matrices and quadratic forms. Additional topics may be added if there is extra time.

Grading Scheme: Assignments will be distributed on a regular basis (normally one per week) to be submitted for grading. These will account for 15% of your final grade. Please note that late assignments will not be accepted under any circumstances, but your lowest assignment mark will be dropped in calculating your final grade. There will be one in-class midterm, tentatively set for February 16, which will account for 25% of your final grade. The final exam (which covers the whole course) will be held during the final exam period, as scheduled by the university, and it will account for 60% of your final grade. Note that for both the midterm and final exam, you may bring a scientific calculator into the exam, but it must not be programmable and it must not have linear algebra capabilities.