

Math 2275

Linear Algebra II

Winter 2019

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

Class Times: MWF 11:30-12:30 in RB 3046

Office Hours: Wednesday and Friday, 12:30-1:20

Text: *Linear Algebra and Its Applications*, 5th edition, by D. C. Lay et al.

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 27, 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.

Note: Lakehead University is committed to achieving full accessibility for persons with disabilities. Part of this commitment includes arranging academic accommodations for students with disabilities and/or medical conditions to ensure they have an equitable opportunity to participate in all of their academic activities. If you are a student with a disability and think you may need accommodations, you are strongly encouraged to contact Student Accessibility Services (SAS) and register as early as possible. For more information, please contact Student Accessibility Services <http://studentaccessibility.lakeheadu.ca> (SC0003, 343-8047 or sas@lakeheadu.ca)