

# Math 2275 -- Linear Algebra II – Winter 2023

**Instructor:** Dr. Liping Liu, Ext. 8427, lipingli@lakeheadu.ca

**Office hours:** Tuesday: 7:30pm – 8:30pm or by appointment, Zoom

**Lectures:** Monday, Wednesday: 1:00pm – 2:30pm, RB 3024

**Textbook:** *Linear Algebra and Its Applications, 6th Edition*, by David C. Lay

**Course Web:** myCourseLink

**CourseContent:** Eigenvalues and eigenvectors; diagonalization; inner product spaces; orthogonal bases; least-squares problems; symmetric matrices; quadratic forms; singular value decomposition; and applications. These are covered in Chapters 5 – 7.

**Assignments:** Weekly assignments will be posted on the course website and are due in one week. Each assignment should be submitted to the course website on the due date. In fairness to everyone, late assignments will not be accepted unless there is a valid documented reason.

**Exams:** Test 1 and Test 2 will be scheduled during the lecture hour in February and March. No make-up tests are provided for students who miss writing the tests at the scheduled time. If there is a legitimate (documented) excuse, the final mark will be calculated based on the final exam. Otherwise, a grade of 0% for the missed tests will be averaged with other grades. A final examination will be scheduled at the end of the term.

**Grading Scheme:**

Participation .....	10%
Assignments .....	10%
Test 1 .....	20%
Test 2 .....	20%
Final Exam .....	40%

**Important Dates:** January 9: First day of class  
January 20: Final date to register (add)  
February 20: Family Day  
February 20 - 24: Winter study break  
March 10: Final date for withdrawal (drop)  
April 11: Final day of class  
April 14: First day of exams  
April 24: Final day of exams

***If you are having difficulty, or have questions, please ask me for help!***