

*Welcome to*  
**MATH 2275 - Linear algebra II**  
*Winter term 2026*

**INSTRUCTOR:** Dr. Monica Ilie

- **Contact info:** RB 2019 ★ ph: 766-7224 ★ *milie@lakeheadu.ca*
- **Office hours:** Mondays/Fridays 9:30-10:30

**COURSE OBJECTIVES**

The main topics include eigenvalues and eigenvectors; diagonalization; inner product spaces; orthogonal bases; least squares problems; symmetric matrices; quadratic forms; singular value decomposition; and applications.

**COURSE INFORMATION:**

- **Class time:** Tuesday/Thursday 10:00-11:15 (ATAC 2005)
- **Suggested Textbook:** *Linear algebra and its applications* by David C. Lay (4th or 5th edition)
- **Book price:** starting at 138.64\$ for 5th edition paperback
- **Website:**  
<https://mycourselink.lakeheadu.ca>
- **Grading:** Your final grade will be given according to the grading scheme below:

|             |                         |                      |            |
|-------------|-------------------------|----------------------|------------|
| Assignments | Midterm 1               | Midterm 2            | Final Exam |
| 10%         | 25%                     | 25%                  | 40%        |
| (WebWork)   | (Th, February 5, 2026 ) | (Th, March 19, 2026) | (TBA)      |

**SYLLABUS**

The topics to be covered are, tentatively, the following: Chapter 5 - Chapter 7

**ASSIGNMENTS**

The online assignments will be available on the WebWork platform. Announcements about availability and due dates will be made on the course website.

**IMPORTANT DATES:**

- **March 6, 2026:** last date for course withdrawal without academic penalty
- **April 20, 2026:** contingency date (all exams that are missed by the closure of the university during the exam period, due to unforeseen circumstances, will be rescheduled this day)

## MISSED FINAL EXAM POLICIES (University Regulations)

*Students who are ill and need to defer the final exam will:*

- 1. Inform their instructor(s) directly by email from their lakeheadu.ca email prior to their exam.*
- 2. Within the email provide a self-declaration affirming their illness to be true (see sample email below that the student will need to provide in order for you to accept their self-declaration for the purposes of rescheduling their exam);*
- 3. Once the student has returned to good health, the student will immediately contact their instructor(s) to arrange a new exam date*
- 4. Students will not be given another opportunity to write the examination if it is missed a second time.*

**A friendly piece of advice:** don't book your plane ticket home until the final exam schedule is published. A booked flight is not an acceptable excuse for missing an exam.

## LECTURE POLICIES

- **Attendance :** I strongly recommend that you come to class. I would appreciate the fact that you show up on time; arriving late disturbs both me and your fellow classmates.
- **Cellphone use policy:** To support focus and learning, cell phone use during class is restricted. Phones must be silenced and stored out of sight. Research shows that even when not in use, the mere presence of a smartphone can reduce cognitive capacity and impair performance on attention and memory tasks. Below are some recent articles on this topic if you are interested:
  1. Skowronek, J., Seifert, A.& Lindberg, S. The mere presence of a smartphone reduces basal attentional performance. Sci Rep. 2023 Jun 8;13(1)
  2. Liu, W., Kawashima, T. & Shinohara, K. (2023). Effects of cell phone presence on the control of visual attention during the Navon task. BMC Psychology. 11.
  3. Kaminske, A., Brown, A., Aylward, A. & Haller, M. (2022). Cell phone notifications harm attention: An exploration of the factors that contribute to distraction. European Journal of Educational Research, 11(3), 1487-1494.

## ACCOMMODATIONS

Lakehead University is committed to achieving full accessibility for persons with disabilities. Part of this commitment includes arranging academic accommodations for students with disabilities to ensure they have an equitable opportunity to participate in all of their academic activities. If you 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 visit: <http://studentaccessibility.lakeheadu.ca>