

Linear Algebra I

Course: MATH 2050

Semester: Fall 2026

Instructor: Yorck Sommerhäuser

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Class meetings: Monday, Wednesday, Friday 9:00 am–9:50 am, A 1046

Office hours: Monday 3:15 pm–4:45 pm, Wednesday 3:15 pm–4:45 pm, Friday 3:15 pm–5:15 pm and by appointment.

Textbook: E. G. Goodaire: Linear Algebra I: Course Notes for Math 2050, 2nd ed., Kendall Hunt, Dubuque, 2016 (required resource)

Course description: The course treats n -dimensional Euclidean spaces, vector operations in two-dimensional and three-dimensional spaces, complex numbers, linear transformations of n -dimensional spaces, matrices, determinants, and systems of linear equations.

Coverage: The course covers the textbook almost completely.

Examinations: There will be a midterm examination and a comprehensive final examination. The midterm examination takes place on Wednesday, October 14 during regular class time in our usual classroom. The final examination takes place during the examination period from December 10 to December 18 at a time and in a room determined by the registrar's office.

Online homework: Beginning Monday of the second week, there will be an online homework assignment. This has to be completed using the Brightspace shell of the course and is due on the following Monday. There will be no online homework assignment during the week of the midterm examination and no online homework assignment during the last two weeks of the semester. In addition, a reading assignment from the textbook will be given in every lecture.

Policies: Eating, drinking, and smoking is not permitted in the classroom. While attendance is not required, it will be recorded. The use of electronic devices, especially cellphones, calculators, and laptop computers, is not permitted without explicit permission of the instructor. Electronic devices have to be turned off completely. While the use of artificial intelligence is permitted, it is not allowed to copy its answers verbatim.

Memorial University accommodates students with disabilities and demands academic integrity. The corresponding university policies can be found at <http://www.mun.ca/policy/site/policy.php?id=239> and in the Academic Calendar in Paragraph 6.12, respectively.

In case of natural or man-made disasters, the course may transition to remote delivery. In case of emergency, this transition might be communicated only via e-mail.

Prerequisites: A combination of the mathematics placement test and high school mathematics scores or three credit hours in first-year mathematics courses.

Marking weights:

Homework:	15 %
Midterm examination:	25 %
Final examination:	60 %