



Overview

Instructor: [Theodore Kolokolnikov](#)

Office: Chase building, room 304.

Office hours: Mondays 10:30-11:30; Wed/Fri 9:30-10:30. Please try to come during the first 15 minutes of the office hour. I may leave early if nobody shows up in the first 15 minutes.

Textbook: [Linear Algebra, by Peter Selinger](#)

Course notes: [see this link](#).

Course outline: We will cover sections 1-8 of the textbook. This course is a self-contained introduction to Matrix Theory and Linear Algebra. Topics include: systems of linear equations, subspaces, linear transformations, determinants, eigenvalues and eigenvectors.

Assessment: online homework (25%), assigned reading and tutorials (10%), midterm (15%), final exam (50%). There will be no make-up of the tutorials or homeworks. However the lowest grade for homework will be dropped.

Tutorials: once a week. Attendance is mandatory and every tutorial will have a (very short) quiz based on assigned reading.

Grade conversion scale: Conversion of numerical grades to Final Letter Grades follows the Dalhousie Common Grade Scale: [0-50) F, [50-55) D, [55-60) C-, [60-65) C, [65-70) C+, [70, 73) B-, [73-77) B, [77-80) B+, [80-85) A-, [85-90) A, [90-100] A+.

We will be using WebWork for the homework (located under "content" tab of brightspace). Preliminary due dates are as follows (subject to change). Each homework is **due at 11:30pm** of the date specified.

HW1: due Fri, Sept 14

HW2: due Fri, Sept 21

HW3: due Fri, Sept 28

HW4: due Fri, Oct 5

HW5: due Fri, Oct 12

MIDTERM: Friday, Oct 19

HW6: due Fri, Oct 26
HW7: due Fri, Nov 2
HW8: due Fri, Nov 9
HW9: due Fri, Nov 16
HW10: due Fri, Nov 23
HW11: due Fri, Nov 30

There are tutorials each week. **Attendance is mandatory.** Below is a tentative list (subject to change) of sections to read from the book. Please make sure you read these sections before the tutorial of that week. Each tutorial will have a very short quiz based on the reading material assigned.

Week of Sept 10: read Sections 1.1-1.4
Week of Sept 17: read Sections 1.5-1.8
Week of Sept 24: read Sections 2.1-2.6
Week of Oct 1: read Sections 2.7-3.2
Week of Oct 8: read Sections 4.1-4.6
Week of Oct 15: read Sections 4.7-4.11
Week of Oct 22: read Sections 5.1-5.2
Week of Oct 29: read Sections 5.3-5.4
Week of Nov 5: read Section 5.5
Week of Nov 12: study break.
Week of Nov 19: read Sections 7.1-7.5
Week of Nov 26: read Sections 8.1-2, 8.4-5
Week of Dec 3: read Sections 8.6-8.9

Course Policies

- Students can get help with this course in the Student Resource Centre which is located in Room 119 on the 1st floor of the Chase Building. A tutor will normally be available Mondays-Thursdays 10am-6pm and Fridays 10am-4pm on a first come, first served basis, free of charge (with additional hours near exam time). The schedule is subject to change; check online (<https://www.dal.ca/faculty/science/math-stats/about/learning-centre.html>) for up-to-date information. The Resource Centre also has large tables where you can work together.
- You will also be given reading assignments from the textbook.
- Calculators, textbooks, and notes are not allowed for Midterm Tests or the Final Examination.
- A missed midterm cannot be written at another time. If you miss the midterm without prior permission, then it will count as a 0. Exceptions are made in two cases: (1) if you obtain the instructor's prior permission to miss a midterm, or (2) if you have

an officially valid excuse such as a medical doctor's note. In these cases, the weight of the missed midterm will be shifted to the final exam. There is no make-up option for the final exam except in cases of an officially valid excuse such as a medical doctor's note.

- Students are encouraged to study in groups, but each student must complete their own online homework, quizzes, and exams.

University Policies and Statements: Please familiarize yourself with standard Faculty of Science policies [found here](#).