

# Linear Algebra I

MATH 1107B, Winter 2020

[School of Mathematics and Statistics, Carleton University](#)

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**Instructor:** Dr. Kevin Cheung

**E-mail:** [kevin.cheung@carleton.ca](mailto:kevin.cheung@carleton.ca)

**Prerequisite:** Ontario Grade 12 Mathematics: Advanced Functions, or MATH 0005 or equivalent, or permission of the School. Students who have not passed the prerequisite course may be automatically de-registered during the term

**Textbook:** An official set of course notes is available for free through cuLearn.

Below are optional references that students could consider acquiring:

- *Linear Algebra and Its Applications* by David C. Lay
- *3,000 Solved Problems in Linear Algebra* by Seymour Lipschutz
- *A First Course in Linear Algebra* by Rob Beezer (<http://linear.ups.edu>) (free e-book)

**Lectures:** As this is a web-based section, there are **no face-to-face lectures**. Supplementary videos accompanying the course notes are accessible online via the weekly lessons in [cuLearn](#).

**Tutorials:** See [Public Class Schedule](#) for the time and location for your tutorial section.

**Instructor's Office Hours:** Times to be announced.

**Teaching Assistants (TAs):** TBA

**Evaluation scheme:**

**Online quizzes (36%):**

- top nine (out of eleven) basic level quiz scores, maximum 2% each
- top nine (out of eleven) comprehensive level quiz scores, maximum 2% each

**Assignments (14%):**

- top two (out of four) assignment scores, maximum 7% each

**Final exam (50%):**

- This is a 3-hour exam scheduled by the University. The exam will take place during the Winter 2020 final exam period. It is the responsibility of each student to be available at the time of the exam. In particular, no travel plans should be made until the exam schedule is published. It is each student's responsibility to find out the correct exam date, time, and location. A **non-programmable calculator** will be **admissible** in the final exam. No other aids are permitted.

## Policies for quizzes and assignments

- **Each weekly lesson** (with the exception of Week 12) is accompanied by **two online quizzes**: one at the **basic level** and one at the **comprehensive level**. Only the top 9 scores from each level will be used in the final grade calculation.
- **Access to the comprehensive-level quiz of each week is restricted to students who obtain 70% or better on the basic-level quiz of the same week.** For each quiz, **five attempts** are allowed and only **the highest score over all the attempts** will be counted. Note that there is an enforced **five-minute delay between successive attempts**. Students are not permitted to consult anyone or any material other than the course material during each attempt of a quiz. **Discussion** of and inquiries on quiz questions in person or online are **strictly prohibited** before the final deadline of the quiz. However, in between attempts, students may consult the TAs or the instructor regarding the course material on which the quiz questions are based. **Detailed questions** about specific questions on a quiz can be directed to the TAs only **after the quiz has closed**. **Students are required to make an Honour Pledge before they are allowed to attempt any of the quizzes.** Details on how to submit the Honour Pledge are provided in cuLearn.
- Submissions for the assignments must be accepted by cuLearn by the posted deadlines. **No exceptions will be made.** Submissions must follow the assignment submission requirements posted in cuLearn. Failure to follow these requirements and the instructions given in each assignment will result in a deduction or complete rejection of the submission, leading to a grade of zero (0) for the assignment.

**System requirements:** Students must have **reliable internet access** and are **fully responsible for resolving their own computer/connection issues and learning how to create proper PDF files for problem set submissions.** Students must also have an **access to a printer.** The course content has been tested on Firefox version 68 with Javascript enabled on Windows 10 and macOS 10.15. Students having **technical issues** with cuLearn should contact the **ITS service desk**.

**Communication:** Announcements on course-related issues are made in cuLearn. In case of cuLearn system malfunction, communication may be made through Carleton's email system. **It is the students' responsibility to check for messages on cuLearn and their Carleton email account every business day.** **Communication between students and the instructor is through electronic means only except for PMC students with a letter requesting accommodation for other available means of communication.** All email to instructors and TAs must be made from students' Carleton email accounts. **Messages originating from non-Carleton University email addresses are typically ignored.**

**Additional policies:** Late assignments will **not** be accepted. There is **no** make-up for missed quizzes. If you miss more than 2 assignments or 2 quizzes due to illness or other conditions recognized by the University, you will need to provide appropriate supporting documentation for **all** the missed work within two (2) business days of returning to campus to qualify for make-up work. The manner or nature of the make-up work is decided by the instructor.

Students may request to have any evaluated term work regraded if it has been incorrectly graded. Such a request must be submitted to the instructor in writing (briefly describing what

has been incorrectly graded) no later than five (5) business days after the work is first returned. All regrades are final.

Time slots for final exam viewing will be available for sign up soon after all the final grades have been released in Carleton Central.

**Plagiarism and Cheating:** *Plagiarism* is defined in the undergraduate calendar as an instructional offence that occurs when a student uses or passes off “as one’s own idea or product, work of another without expressly giving credit.” This includes plagiarism involving material lifted from the Internet. Plagiarism is a serious offence and the penalties for students who are found to be plagiarizing or cheating may be **a failed grade and/or academic probation.**

**Pregnancy/Religious Accommodation:** Write to the instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details, visit the [Equity services website](#).

**Students with disabilities requiring academic accommodations** in this course must register with the Paul Menton Centre for Students with Disabilities (PMC) for a formal evaluation of disability-related needs. Documented disabilities could include but are not limited to mobility/physical impairments, specific Learning Disabilities (LD), psychiatric/psychological disabilities, sensory disabilities, Attention Deficit Hyperactivity Disorder (ADHD), and chronic medical conditions. Registered PMC students are required to contact the PMC, 613-520-6608, every term to ensure that I receive your Letter of Accommodation, no later than two weeks before the first assignment is due or the first in-class test/midterm requiring accommodations. If you only require accommodations for your formally scheduled exam(s) in this course, please submit your request for accommodations to PMC by the deadlines published on the [PMC website](#).