



Carleton University Department of Economics

Fall 2026

ECON 0005

Preparatory Mathematics for Economics

The Instructor

Instructor: Lanny Zrill

Email Address: lannyzrill@cunet.carleton.ca

Office Location: Loeb C875

Office Hours: by appointment

The Course

Course Location/Delivery: see Carleton Central

Course Day and Time: Monday and Wednesday, 1005 - 1125

TA: Kimia Kordestani

Email Address: KimiaAghayousofKorde@cmail.carleton.ca

Office Location: TBA

Office Hours: TBA

TA: Olivia Jiang

Email Address: OliviaJiang@cmail.carleton.ca

Office Location: TBA

Office Hours: TBA

TA: Yvon Chen

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Office Location: TBA

Office Hours: TBA

Brightspace Course Page: <https://brightspace.carleton.ca/d2l/home/449313>

Course Description

Review of elementary mathematics in preparation for undergraduate economics curriculum. Topics covered include manipulation of algebraic expressions, solving equations, working with

inequalities, functions, and graphical visualization of magnitudes and relationships. Students will engage in problem-solving exercises in the context of basic economic applications.

Learning Outcomes

After this course, students will be able to:

- Manipulate basic algebraic expressions
- Represent mathematical relationships between two variables graphically
- Solve systems of two equations with two unknowns
- Manipulate algebraic expression including exponential and logarithmic functions
- Evaluate and manipulate inequalities
- Compute basic statistical measures of centrality and spread

Preclusions and Prerequisites

Precludes additional credit for Not available for degree credit for students who have successfully completed: Grade 12 Mathematics - Advanced Functions, or an equivalent High School functions course, or an equivalent university-level course, such as [MATH 0005](#).

Prerequisite(s): Grade 11 Functions (University/College Preparation), or equivalent.

Textbooks and Readings

Texts

Title	Author(s)	ISBN
Basic Technical Mathematics w/ Calculus (12/C/e) – MyLab and eText	Washington and Evans	9780138277307

The textbook can be obtained through the Carleton University bookstore <https://www.bkstr.com/carletonstore/shop/textbooks-and-course-materials>

Estimated cost: \$85.50

The course will cover sections: 1.1-1.2, 1.4, 1.6-1.10, 3.1-3.4, 3.6, 5.1-5.3, 6.1-6.7, 7.1, 7.3, 11.1-11.5, 13.1-13.3, 13.5-13.6, 17.1-17.4

Evaluation

Evaluation – Undergraduate Students

Assignment/Test	Date	Mode of Delivery	Percentage of Grade
Quizzes	Weekly	Online	10%
Tutorials	Weekly	In-person	10%
Tutorial Attendance*	Weekly	In-person	10%
Exams (3)	Various	In-person	30%
Final Exam	As Scheduled by the University during the Examination Period	In-person	40%
			Total: 100%

Information About Evaluations

Quizzes: There will be weekly online quizzes available on Brightspace. Each week, students must complete the quiz by 11:59pm on Friday evening. Students will have unlimited attempts at each quiz and only the highest score will be recorded. Quizzes will not be held on weeks where there is a test. The lowest two quiz scores will be dropped.

Tutorials: There will be weekly assignments to be completed based on material covered in weekly tutorials. These assignments will be graded for completion and effort only. The purpose is to provide an incentive for students to work on problems that will help them prepare for the exams. The lowest two tutorial scores will be dropped.

Tutorial Attendance: Students are expected to attend all tutorials. The first two absences will not be penalized. Each absence beyond that will result in a 1% shift to the final exam, up to a maximum of 10%.

Tests: There will be 3 in-person tests. Each will cover material only from the preceding third of the course. The tests will take place **in-class** on **Wednesday, September 30th, Wednesday, November 4th, and Wednesday, December 2nd.**

Final: The final exam will take place in-person at a time and place determined by the University. The final exam will cover all material from the course.

Late Policies and Extensions for Term Work

Quizzes and tutorials submitted within 8 hours late are accepted without penalty; after that they receive a zero.

Midterm/Test Policies

If you will be absent for a test, for any reason, you must notify the instructor **in advance** or there will be a small penalty. In all cases of an approved absence, the weight from the test will be added to the final exam (minus any penalty). There will be no make up exams. I reserve the right to request a Self-Declaration form or PMC letter of accommodation depending on the length of incapacitation.

Final Exam

The final exam will be in-person as scheduled by the University during the exam period. Students are not to make travel plans during the exam period as that is not a valid reason for missing a final exam.

Deferred Finals

Students who do not write the final examination because of illness or other circumstances beyond their control may apply for to write a deferred final examination by contacting the Registrar's Office no later than three working days after the original final examination was scheduled. In the event that a student writes a deferred examination, the deferred examination will carry the same weight as the final examination in determining the course grade. Any deferred examination will not be identical to the original final examination.

Deferred finals (which must be applied for at the RO) are only available if the student is in good standing in the course.

E-Proctoring

E-proctoring will not be used for evaluations in this course.

Plagiarism, Resources and Mental Health, Academic Accommodations

You are responsible for reading and knowing the information about plagiarism, Carleton University resources, and academic accommodations found [HERE](#).