Carleton University Department of Economics
<u>Winter 2025</u>
ECON 0005
Preparatory Mathematics for Economics

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The Instructor

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Instructor: Ahmad Malgarai
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Office Location: Loeb D881
Office Hours:See Brightspace

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The Course

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Course Location/Delivery: See Brightspace for Class Location.
Course Day and Time: Friday, 8:35 AM – 11:25 AM

TA:
Email Address: TBA
Office Location: TBA
Office Hours: TBA

Brightspace Course Page: https://brightspace.carleton.ca/d2l/home/315796

Course Description

This course provides a review of elementary mathematics to prepare students for the undergraduate economics curriculum. Topics include the manipulation of algebraic expressions, solving equations, working with inequalities, understanding functions, and graphical visualization of magnitudes and relationships. Students will actively engage in problem-solving exercises tailored to basic economic applications, reinforcing their mathematical skills in a practical, economics-oriented context.

Learning Outcomes

After completing 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 expressions involving exponential and logarithmic functions.
- Evaluate and work with inequalities.
- **<u>Compute and interpret basic statistical measures of central tendency and variability.</u>**

Preclusions and Prerequisites

This course is not available for degree credit to students who have successfully completed Grade 12 Mathematics - Advanced Functions, an equivalent high school functions course, or a similar university-level course, such as https://calendar.carleton.ca/search/?P=MATH%200005

Prerequisite

Students must have completed Grade 11 Functions (University/College Preparation) or an equivalent course.

Textbooks and Readings

Textbook

The required textbook for the course is:

Maths for Economics, 5 th edition By Geoff Renshaw, Oxford University Press.

Title	Author(s)	ISBN
Maths for Economics	Geoff Renshaw	978-0198839507

Available from: Carleton University Bookstore.

Evaluation

Evaluation

Assignment/Test	Date	Mode of Delivery	Percentage of Grade
Midterm Exam (3)	Various	In-person	50%
Final Exam	As Scheduled by the University during the Examination Period.		50%
			Total: 100%

Information About Assignments

There will be three in-person tests throughout the term. Each test will cover material exclusively from the preceding third of the course. The test schedule is as follows:

- **Test 1:** Friday, January 31st
- **Test 2:** Friday, February 28th
- **Test 3:** Friday, March 21st

All tests will take place during regular class hours.

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

Course Policies

Midterm/Test Policies

- If you are unable to attend a test for any reason, you must notify the instructor in advance.
- Approved absences will result in the weight of the missed test being transferred to the final exam.
- **There will be no make-up tests.**
- Depending on the reason for your absence, the instructor reserves the right to request a Self-Declaration form or a PMC letter of accommodation.

Final Exam

- The final exam will take place **in person** during the official exam period as scheduled by the University.
- Students are advised **not to make travel plans** during the exam period, as travel is not a valid reason for missing the final exam.

Satisfactory Performance Criteria

- Students must fulfill all course requirements (excluding quizzes) to achieve a passing grade (D- or higher).

Deferred Final Exam

- Students unable to write the final exam due to illness or other exceptional circumstances must contact the **Registrar's Office** within three working days after the original final exam date to apply for a deferred final exam.
- The deferred exam will carry the same weight as the original final exam in the course grading.
- **Note:** Deferred exams are only available to students in **good standing** in the course. The deferred exam may differ from the original final exam.

E-Proctoring

- E-proctoring will **not** be used for any 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
https://carleton.ca/registrar/academic-integrity/