Carleton University Department of Economics
<u>Fall 2024</u>
ECON 0005
Preparatory Mathematics for Economics

The Instructor

Instructor: Lanny Zrill
Email Address: lannyzrill@cunet.carleton.ca
Office Location: Loeb C875
Office Hours: see Brightspace

The Course

Course Location/Delivery: see Carleton Central
Course Day and Time: Tuesdays and Thursdays, 1605 - 1725

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

Brightspace Course Page: https://brightspace.carleton.ca/d2l/home/233147

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:

You must purchase access to **one** of two of the following options:

Option 1:

Title	Author(s)	ISBN
Basic Technical Mathematics w/ Calculus (12/C/e) – ebook	Washington and Evans	9780137900619

Option 2 (Highly Recommended):

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

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, and if time permits 18.1-18.2, 19.1-19.3, 22.1-22.3

Evaluation

Evaluation – Undergraduate Students

Assignment/Test	Date	Mode of Delivery	Percentage of Grade

Quizzes (8)	Various	Online	10%
Exams (3)	Various	In-person	40%
Final Exam	As Scheduled by the University during the Examination Period	In-person	50%
			Total: 100%

Information About Evaluations:

Quizzes: There will be 8 online quizzes available on Brightspace. Each week, students must complete the quiz by 11:59pm on Wednesday 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.

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 **Thursday, September 26th, Thursday, October 31st, and Thursday, November 21st.**

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:

Late quizzes will automatically receive a grade of zero, however an 8-hour grace period will be in effect for all quizzes. Quizzes submitted within the grace period will receive a 10% reduction.

Midterm/Test Policies:

If you will be absent for a test, for any reason, you must notify the instructor **in advance.** In all cases of an approved absence, the weight from the test will be added to the final exam. 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.

Satisfactory Performance Criteria:
Students must fulfill all of the course requirements (excluding quizzes), in order to achieve a passing grade (D- or higher).

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.

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Plagiarism, Resources and Mental Health, Academic Accommodations

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