Economics, Faculty of Liberal Arts & Professional Studies, York University

Fall 2019 Course Outline

Course #: AP/ECON 1530 Sec E

COURSE TITLE: Introductory Mathematics for Economists I

Fall 2019

Course Instructor Contact:

Name: Dr Shadab Qaiser

Office location : Vari Hall 1075

Office Hours: TBA

Email: qaisers@yorku.ca

Link to Course Website: I will be using Moodle for posting announcements, lecture handouts, practice assignments, and practice tests.

Teaching Assistant Information: TBA

Course Objectives: This course presents and analyzes a sequence of basic ideas, topics and problems arising in Economics. For each idea/topic/problem relevant mathematical ideas and techniques are recalled and/or derived so as to provide a deeper understanding of the Economic issue and how it can be resolved, if necessary. The notion of Quantity Demanded is first addressed by expressing quantity demanded as a linear function of price where both the slope and intercept embed important Economics ideas. This sequence leads naturally to the notion of Revenue (the product of quantity demanded and price) where nonlinear functions are analyzed using mathematical techniques that include derivatives. This sequence culminates with notions of prices that maximize revenue subject to a given demand function. A large number of such topic sequences involving univariate functions are examined.

Prerequisite: Grade 12U Advanced Functions or equivalent.

Prerequisites/Co-requisites: AP/ECON 1000 3.00 or AP/ECON 1010 3.00, or equivalent. Strongly recommended completion: high-school calculus or equivalent.

Course credit exclusions: SC/MATH 1000 3.00, SC/MATH 1013 3.00, SC/MATH 1300 3.00, SC/MATH 1505 6.00, SC/MATH 1513 6.00, SC/MATH 1530 3.00, SC/MATH 1550 6.00, GL/MATH/MODR 1930 3.00. Note: Acceptable course substitutes are available in the Calendar.

3. **Required Course Text/Readings:**

Essential Mathematics for Economic Analysis, 5th edition, Knut Sydsaeter and Peter Hammond with Arne Strom, Prentice Hall.

4. Topics to be covered

a) Introduction to algebra and equations
b) Functions of one variable, Properties of functions
c) Differentiation, Derivatives in use, Singe-variable optimization
d) Integration

5. Weighting of Course:

Midterm Exam – MT (40 %)   **Tuesday Oct 22, 2019 in Class**

Final   Exam – Cumulative F (60%)   Held during Official examination period

Where MT is for Midterm Exam and F is for final exam. There will be no make-up exam for the midterm exam. Students absent from the midterm exam will have the weight transferred to their final exam. The final exam will be cumulative and will cover all materials discussed in class. The date of the final exam will be scheduled by the registrar's office. Students absent from the final examination and requesting for deferred standing must follow the guidelines for Deferred Standing of the Department of Economics at York University. The grades may be scaled to conform to the regulations of the Faculty of Arts.

Important Course Information for Students:
All students are expected to familiarize themselves with the following information, available on the Senate Committee on Curriculum & Academic Standards webpage;
http://www.yorku.ca/secretariat/policies/index-policies.html/
➤   York's Academic Honesty Policy and Procedures/Academic Integrity Website

Academic Honesty and Integrity: Conduct that violates the ethical or legal standards of the University community or of one's program or specialization is subject to severe penalties. Students are responsible for understanding the nature and consequences of these offences, as contained in the Senate Policy on Academic Honesty, found on the York University Senate WEB page:
http://www.yorku.ca/secretariat/policies/document.php?document=69
➤   Ethics Review Process for research involving human participants

http://www.yorku.ca/secretariat/policies/document.php?document=94

➢ Course requirement accommodation for students with disabilities, including physical, medical, systemic, learning and psychiatric disabilities

http://www.yorku.ca/secretariat/policies/document.php?document=68
➢ Student Conduct Standards

http://www.yorku.ca/oscr/standards.html
➢ Religious Observance Accommodation

https://w2prod.sis.yorku.ca/Apps/WebObjects/cdm.woa/wa/regobs
IMPORTANT COURSE INFORMATION FOR STUDENTS

All students are expected to familiarize themselves with the following information, available on the Senate Committee on Academic Standards, Curriculum & Pedagogy webpage (see Reports, Initiatives, Documents) -
http://secretariat.info.yorku.ca/files/CourseInformationForStudentsAugust2012.pdf

- Senate Policy on Academic Honesty and the Academic Integrity Website
- Ethics Review Process for research involving human participants
- Course requirement accommodation for students with disabilities, including physical, medical, systemic, learning and psychiatric disabilities
- Student Conduct Standards
- Religious Observance Accommodation

Policy and Guidelines on Withdrawn from Course: http://secretariat-policies.info.yorku.ca/policies/withdrawn-from-course-w-policy-and-guidelines

Important Dates

	Fall Term 2019 (F19)
Last date to add a course **without permission** of instructor (also see Financial Deadlines)	September 17
Last date to add a course with permission of instructor (also see Financial Deadlines)	October 1
Last date to drop a course without receiving a grade (also see Financial Deadlines)	November 8
Course Withdrawal Period (withdraw from a course and receive a grade of "W" on transcript)	November 9 - December 3