

**Faculty of Liberal Arts & Professional Studies**

**Department of Economics**

**Preliminary: Winter Term 2022**

**Course:** AP/ECON 1540 O – Introductory Mathematical Economics II

**Course Website:** TBA

Please check this regularly for problems sets, answers, past tests and exams, notes and announcements.

**Term:** Winter Term of Academic Year 2021-2022

**Prerequisite / Co-requisite:**

1. AP/ECON 1530 3.00 or equivalent
2. AP/ECON 1000 3.00 or AP/ECON 1010 3.00, 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.

**Course Instructor Contact**

Name: Barry Smith  
Office: 1078 Vari Hall  
Office Hours: Online: TBA  
Email: maecsta@yorku.ca

**Time and Location**

Lectures: MW 11:30 AM-1:00 PM CLH H

**Teaching Assistant(s)**

Name: TBA  
Office:  
Email:  
Office hours:

## **Course Description**

**Details:** This course extends the analysis of basic economics ideas, topics and problems begun in AP/ECON 1530 3.00. Again, relevant mathematical ideas and techniques are recalled and/or derived so as to provide a deeper understanding of economic issues and how they can be addressed using mathematical methods. The issues and problems covered require functions of more than one variable for their resolution. This course, combined with AP/ECON 1530 3.00, is meant to prepare students for the intermediate economic theory courses as well as statistics and econometrics courses. In particular, we will study functions of more than one variable and their properties, multivariate optimization and linear algebra. These mathematics topics will be related to the corresponding economics topics.

**Learning Process:** You are expected to attend all lectures. Your understanding of the course material will become deeper and broader the more you practise. You can't simply read mathematics and expect to understand or retain ideas or solve problems.

## **Course Text**

Knut Sydsaeter, Peter Hammond, Arne Strom and Andres Carvajal. Essential Mathematics for Economic Analysis, Fifth Edition (ISBN 978129207461-0), Pearson. (An e-version is available as well. Please see the York University Bookstore for details.)

## **Weighting of Course Components**

Midterm Test: Wednesday February 16, 2022 (during class time) 30%  
Quizzes: TBA  
Final Exam During Final Exam Period: April 12-29, 2022 70% (set by Registrar)

## **Additional Information**

The midterm test is optional. If you choose to write it, your midterm grade can count 30% towards your final course grade. If you write the term test and do not like your grade, you can have the weight of the test added to the final exam. Please Note: You should write the term test. Writing the test does not guarantee that you will pass the course. However, students who do not write the test tend to fail the course. Writing the test helps prepare you for writing exams. There is no makeup midterm test.

The final exam will be cumulative and will cover all materials discussed in the course. The date of the final exam will be scheduled by the Registrar's office. Students absent from the midterm test will automatically have their final exam determine 100% of the course grade. Students absent from the final exam will have to request a makeup exam. This makeup exam will take place only once.

The grading scheme for the course conforms to the 9-point grading system used in undergraduate programs at York (e.g., A+ = 9, A = 8, B+ = 7, C+ = 5, etc.). Tests and final exam grades will be numeric. They can be transformed to a letter grade using the following scale: A+ = 90 to 100, A = 80 to 89, B+ = 75 to 79, etc.

## **Topics Outline Circulated Separately**

### **Important Course Information for Students**

#### **Important Dates:**

- January 10, 2022 Courses start
- January 23, 2022 Last day to enroll without permission of instructor
- February 7, 2022 Last day to enroll with permission of instructor
- February 19-25, 2022 Winter Reading Week (No classes, University is open)
- March 18, 2022 Last day to drop course without a grade
- March 119 – April 10, 2022 Voluntary drop period, grade of W on transcript
- April 10, 2022 Classes end
- April 11, 2022 Winter Study day
- April 12-29, 2022 Fall exam period. Exams dates are set by the Registrar. Special exam dates cannot be set by the instructor. Do not pre-book travel that could conflict with the final exam date.

#### **Other Important Information:**

*The Senate Committee on Curriculum & Academic Standards (CCAS) provides a [Student Information Sheet](#) that includes:*

- [York's Academic Honesty Policy and Procedures / Academic Integrity Web site](#)
- [Access/Disability](#)
- [Religious Observance Accommodation](#)
- [Student Code of Conduct](#)

*Additional information:*

- [Academic Accommodation for Students with Disabilities](#)
- [Alternate Exam and Test Scheduling](#)
- [Grading Scheme and Feedback Policy](#)

*The Senate Grading Scheme and Feedback Policy stipulates that (a) the grading scheme (i.e. kinds and weights of assignments, essays, exams, etc.) be announced, and be available in writing, within the first two weeks of class, and that, (b) under normal circumstances, graded feedback worth at least 15% of the final grade for Fall, Winter or Summer Term, and 30% for 'full year' courses offered in the Fall/Winter Term be received by students in all courses prior to the final withdrawal date from a course without receiving a grade. Final course grades may be adjusted to conform to Program or Faculty grade distribution profiles.*