

Faculty of Liberal Arts & Professional Studies

Department of Economics

ECON 1540 Section U

Winter 2022

REVISED COURSE OUTLINE
(January 2022)

Course: AP/ECON 1540 U – Introductory Mathematical Economics II

Term: Winter Term of Academic Year 2021-2022

Course Instructor: Sudeshna Maitra

Office Hours: By email appointment

Email: sm2.teaching@gmail.com

Course Website: <https://eclass.yorku.ca/course/view.php?id=57933#section-0>

Please check this regularly for announcements, notes, assignments, solutions etc.

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.

Time and Location

Lectures: Tuesdays & Thursdays, 11:30 am – 1:00 pm

Location: Zoom link (posted on course website)

Teaching Assistant(s)

TBA

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 lectures and to solve the problems that are assigned each week. 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.)

Syllabus

Chapters 11 to 16 of the text (topics will be announced as the course progresses).

Weighting of Course Components

Assignments (dates TBA): 10%

Midterm Test (**Tuesday, March 1, 2022, during class time**): 30%

Final Exam During April 12-29, 2022 (date set by Registrar): 60%

Additional Information on Exams/Grades

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 midterm test and do not like your grade, you can have the weight of the test added to the final exam. Warning! You should write the midterm 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. It helps to prepare you for writing exams. There is no makeup midterm test.

Regular assignments will be posted throughout the term. If you submit answers to the assignment before the end of the deadline, you automatically receive 100% marks for the assignment. If you miss an assignment, you get a grade of 0 for the assignment.

The final exam will be cumulative and will cover all materials discussed in class and the assigned problems. 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 80% 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.

Important Course Information for Students

Important Dates:

- January 10, 2022: Classes 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 receiving a grade
- March 19 – 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

- **Academic honesty and integrity:**

In this course, we strive to maintain academic integrity to the highest extent possible. Please familiarize yourself with the meaning of academic integrity by completing SPARK's [Academic Integrity module](#) at the beginning of the course. Breaches of academic integrity range from cheating to plagiarism (i.e., the improper crediting of another's work, the representation of another's ideas as your own, etc.). All instances of academic dishonesty in this course will be reported to the appropriate university authorities and can be punishable according to the [Senate Policy on Academic Honesty](#).

- Final course grades given by the instructor will use the standard York grading scale and may be adjusted to conform to Program or Faculty grades distribution profiles.
- All students are expected to familiarize themselves with the following information, available on the Senate Committee on Curriculum & Academic Standards webpage; <http://secretariat-policies.info.yorku.ca>
 - Senate Policy on Academic Honesty and the Academic Integrity Website
<https://secretariat-policies.info.yorku.ca/policies/academic-honesty-senate-policy-on/>
 - Ethics Review Process for research involving human participants
<https://secretariat-policies.info.yorku.ca/policies/ethics-review-process-for-research-involving-human-participants-policy/>

- Academic Accommodation for Students with Disabilities (Policy)
<https://secretariat-policies.info.yorku.ca/policies/academic-accommodation-for-students-with-disabilities-policy/>
- Student Conduct Standards
<https://www.yorku.ca/oscr/standards.html>
- Religious Observance Accommodation
<https://secretariat-policies.info.yorku.ca/policies/academic-accommodation-for-students-religious-observances-policy-guidelines-and-procedures/>
- Religious Observances Dates
<https://registrar.yorku.ca/enrol/dates/religious-accommodation-guidelines-2021-2022>
- Grading Scheme and Feedback (Senate) Policy*
<http://secretariat-policies.info.yorku.ca/policies/grading-scheme-and-feedback-policy/>
- Alternate Exam and Test Scheduling
<https://altexams.students.yorku.ca/>
- Important Sessional Dates
<https://registrar.yorku.ca/enrol/dates>

**Additional information:*

- ***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.