Faculty Liberal Arts and Professional Studies
Department of Economics

Course: AP/ECON1540M 3.0   **Course Webpage**: https://moodle.yorku.ca/ and log in

Term: S2 2020

_____

Course Instructor

Name: Prof. Ying KONG
Email: ykong@yorku.ca (email is the preferred contact method)
Virtual office hours: Monday, 9:00pm-9:30pm after lecture time
                        Wednesday, 9:00pm-9:30pm after lecture time

TA: TBA
Office hours: TBA
Email: TBA

Technical requirements for taking the course
Here are some useful links for student computing information, resources and help:
Student Guide to Moodle (https://lthelp.yorku.ca/student-guide-to-moodle)
Zoom@YorkU Best Practices (https://staff.computing.yorku.ca/wp-content/uploads/sites/3/2020/03/Zoom@YorkU-Best-Practicesv2.pdf)
Zoom@YorkU User Reference Guide (http://staff.computing.yorku.ca/wp-content/uploads/sites/3/2012/02/Zoom@YorkU-User-Reference-Guide.pdf)
Computing for Students Website (https://student.computing.yorku.ca/)
Student Guide to eLearning at York University (http://elearning-guide.apps01.yorku.ca)

Class Time and Location

Lectures   Monday & Wednesday 6pm-9pm   **ZOOM online**
* Important: Please note that this is a course that depends on remote teaching and learning. There will be no in-person interactions or activities on campus. Technical requirements for taking the course are provided on the course web of Moodle

Organization of the Course

The entire course, including the participation/discussion and test-taking, will take place on the course's Moodle. The course has both synchronous and asynchronous elements. The lecture materials are first delivered synchronously during the lecture time through ZOOM. The class notes will be posted on our Moodle web each week for students to review the lecture materials especially for the students who could not attend ZOOM online lecture to study the course. Although we are scheduled to meet at scheduled class times and days of the week, this course has no live virtual meetings outside of lecture hours. Like an online course, you can learn the

course material at your own pace through the textbook and class notes, following the syllabus of the course.

Several platforms will be used in this course (e.g., Moodle, Canvas, Zoom, etc.) through which students will interact with the course materials, the course director / TA, as well as with one another. Please review the syllabus to determine how the class meets (in whole or in part), and how office hours and presentations will be conducted.

Students shall note the following:
- Zoom is hosted on servers in the U.S. This includes recordings done through Zoom.
- If you have privacy concerns about your data, provide only your first name or a nickname when you join a session.
- The system is configured in a way that all participants are automatically notified when a session is being recorded. In other words, a session cannot be recorded without you knowing about it.

Technology requirements and FAQs for Moodle can be found here -
http://www.yorku.ca/moodle/students/faq/index.html

2. Course Description (prerequisites/co-requisites):
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 resolved. The issues and problems covered require functions of more than one variable for their resolution. The notion of Quantity Supplied is combined with the notion of Quantity Demanded and notions of Market Equilibrium are introduced and discussed. Equilibria are evaluated through the introduction of mathematical notions and properties of systems of equations, eventually in matrix form. A deeper understanding of theories of demand (supply) and the foundations of demand (supply) functions is developed through the introduction of mathematical notions of unconstrained and constrained optimization and linear and nonlinear programming. As in AP/ECON 1530 3.0, many topics and issues are addressed and problem framing, and problem-solving abilities are enhanced.

Prerequisite: AP/ECON 1530 3.00 or equivalent.

Prerequisites/Co-requisites: AP/ECON 1000 3.00 or AP/ECON 1010 3.00, or equivalent. Note: No credit will be retained for this course for students who have successfully completed or who are currently enrolled in SC/MATH 1021 3.00, SC/MATH 1025 3.00, or SC/MATH 2221 3.00.

Course credit exclusions: SC/MATH 1505 6.00, SC/MATH 1540 3.00, SC/MATH 1550 6.00, GL/MATH/MODR 2650 3.00. Note: Acceptable course substitutes are available in the Calendar.

Course Text / Readings

> Knut Sydsaeter and Peter Hammond, Essential Mathematics for Economic Analysis, Fifth Edition (ISBN 9781292074719), Pearson.

Lectures, although based mainly on the textbook, some sections in the textbook may not be covered in the class. Where indicated in the Syllabus, in class lecture notes which are posted on Moodle course web will be an important teaching source for the class.

Syllabus

Topic I: Mathematical Preliminaries
      1.1 Linear Algebra （Chapter 15.1-15.5 & 16.1-16.8）
      1.2 Multivariable Calculus （Chapter 11.1-11.2,11.5-11.8）

Topic II: Unconstrained Optimization

      2.1 Comparative Static Techniques （Chapter12）
      2.2 Multivariable Optimization （Chapter 13）

Topic III: Constrained Optimization and Linear Programming

      3.1 Constrained Optimization （Chapter 14）
      3.2 Linear Programming （Chapter 17, optional by time availability ）

Weighting of Course Components

Midterm Test Date: TBD, weight 40%.
Final Exam: During Final Exam Period: August 14-21, weight 60%
      The final exam will be cumulative and will cover all materials discussed in class and the assigned problems and assignments. The date of the final exam will be scheduled by the Registrar's office.

Grading and Missed Tests

Grading: 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.

Missed Tests: There are no deferred tests or exams. 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 petition to the Faculty of Liberal Arts and Professional Studies (or their own faculty if they are not LAPS students) for a makeup exam.

To prepare exam and familiar to the materials that we discussed in the class, I strongly encourage students to try your best to practice questions at end of each sections and chapter.

Important Course Information (https://registrar.yorku.ca/enrol/dates/su20)

Important Dates
- June 29, 2020 Courses start
- July 3, 2020 Last day to enroll without permission of instructor
- July 10, 2020 Last day to enroll with permission of instructor
- July 29, 2020 Last date to drop course without receiving a grade

- July 30-Aug. 12, 2020 Course Withdrawal Period
  (withdraw from course and receive a "W" on transcript – see Add and Drop Deadline Information below)
- Aug. 12, 2020 Classes end
- Aug. 11, Aug. 13, 2020 Study day
- Aug. 14-21, 2020 S2 term exam period. Exams dates are set by the Registrar. Special exam dates cannot be set by the instructor. If you pre-book travel at a time that turns out to conflict with the final exam time and date, you are taking a gamble. If you win, you get lower travel costs. If you lose, a travel conflict is not recognized as grounds to petition for a makeup exam.

Add and Drop Deadline Information
Since, for the most part, the dates are **different**, be sure to read the information carefully so that you understand the differences between the sessional dates below and the Refund Tables provided in the web of https://registrar.yorku.ca/enrol/dates/su20.

You are strongly advised to pay close attention to the "Last date to enroll without permission of course instructor" deadlines. After that date, you must contact the professor/department offering the course to arrange permission.

You can drop courses using the registration and enrolment system up until the last date to drop a course without receiving a grade (drop deadline). You may withdraw from a course using the registration and enrolment system after the drop deadline until the last day of class for the term associated with the course. When you withdraw from a course, the course remains on your transcript without a grade and is notated as "W". The withdrawal will not affect your grade point average or count towards the credits required for your degree.

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.

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.

- **"20% Rule"**
  No examinations or tests collectively worth more than 20% of the final grade in a course will be given during the final 14 calendar days of classes in a term. The exceptions to the rule are classes which regularly meet Friday evenings or on Saturday and/or Sunday at any time, and courses offered in the compressed summer terms.
- Final course grades may be adjusted to conform to Program or Faculty grade distribution profiles.