

# **ECON 3E03: Applied Econometrics**

## **Fall 2021**

**Instructor:** Youngki Shin

**Office:** KTH 440

**Online Lecture:** 2 hours of Video Lectures per week

**Virtual Classroom:** Wednesday, 11:30pm-12:20pm (Computer lab / Tutorials)

**TA:** TBA

**Email:** shiny11@mcmaster.ca

**Office Hours (online):** by appointment

### **COURSE DESCRIPTION**

The objective of the course is to train students in applied econometrics, including single and multiple regression estimation and related hypothesis testing. Emphasis will be placed on practical use of such methods in a variety of economic examples.

### **COURSE REQUIREMENTS**

For detailed information on prerequisites and antirequisites, please check the following webpage:

<https://www.economics.mcmaster.ca/courses/applied-econometrics>

### **COURSE MATERIALS AND TEXTS**

This course requires the following textbook:

Stock, James H., & Mark W. Watson, 2019, Introduction to Econometrics, Fourth edition, Pearson Addison-Wesley (SW hereafter)

In addition, students will use the computer program R during the course.

### **AVENUE TO LEARN AND ZOOM**

Avenue to Learn (Avenue) and ZOOM will be used for online lecture videos, course announcements, files that you can download, and your grades. Students should be aware that, when they access the electronic components of this course, private information such as first and last names, user names for the McMaster e-mail accounts, and program affiliation may become apparent to all other students in the same course. The available information is dependent on the technology used. Continuation in this course will be deemed consent to this disclosure. If you have any questions or concerns about the disclosure, please discuss this with the course instructor.

### **COURSE EVALUATION**

The assessment will be based on the following three components:

1. Virtual class participation (10%)
2. 4 assignments (30%, 7.5% each)
3. Midterm exam (20%)
4. Final take-home exam (40%)

When students miss the due date of any grading items (assignments or exams) for valid reasons, students should send me an email within 2 days (48 hours) from the due date. The email should contain the following materials: (i) MSAF, (ii) reason for missing the due date, (iii) alternative exam date (in case of mid-term or final) within 7 days from the original due date. Then, students will receive a new set of assignment/exam questions with a new due date.

## **COURSE POLICIES**

### ***Grades***

Grades will be based on the McMaster University grading scale:

<b>MARK</b>	<b>GRADE</b>
90-100	A+
85-90	A
80-84	A-
77-79	B+
73-76	B
70-72	B-
67-69	C+
63-66	C
60-62	C-
57-59	D+
53-56	D
50-52	D-
0-49	F

### ***Grade Adjustment Techniques***

The final grade can be adjusted by a piece-wise affine transformation when the class outcomes are either too low or too high.

## **WEEKLY COURSE SCHEDULE (AND/OR IMPORTANT DATES)**

The course will cover Chapters 2-8 of the main text. This is a tentative plan and can be changed during the semester. Online lecture videos will be posted every Wednesday.

### **Week 1: September 8 – September 14**

**Virtual Classroom (Sep. 8)**

**Online Lecture 1**

### **Week 2: September 15 – September 21**

**Virtual Classroom (Sep. 15)**

**Online Lecture 2**

### **Week 3: September 22 – September 28**

**Virtual Classroom (Sep. 22)**

- Assignment 1 due date

**Online Lecture 3**

**Week 4: September 29 – October 5**

**Virtual Classroom (Sep. 29)**

**Online Lecture 4**

**Week 5: October 6 – October 12**

**Virtual Classroom (Oct. 6)**

- Assignment 2 due date

**Online Lecture 5**

**Week 6: October 13 – October 19**

**Mid-term recess. No virtual class / online lecture**

**Week 7: October 20 – October 26**

**Virtual Classroom (Oct. 20)**

**Midterm exam during the virtual class. No Online Lecture**

**Week 8: October 27 – November 2**

**Virtual Classroom (Oct. 27)**

**Online Lecture 6**

**Week 9: November 3 – November 9**

**Virtual Classroom (Nov. 3)**

**Online Lecture 7**

**Week 10: November 10 – November 16**

**Virtual Classroom (Nov. 10)**

- Assignment 3 due date

**Online Lecture 8**

**Week 11: November 17 – November 23**

**Virtual Classroom (Nov. 17)**

**Online Lecture 9**

**Week 12: November 24 – November 30**

**Virtual Classroom (Nov. 24)**

- Assignment 4 due date

**Online Lecture 10**

**Week 13: December 1 – December 7**

**Virtual Classroom (Dec. 1)**

**Online Lecture 11**

**Week 14: December 8**

**Virtual Classroom (Dec. 8)**

**IMPORTANT DATES**

- Midterm Exam: October 20, Wednesday (During the virtual class)
- Final Exam: December 15, Wednesday, 1:00-4:00pm (3 hours)

## UNIVERSITY POLICIES

### ACADEMIC INTEGRITY

You are expected to exhibit honesty and use ethical behaviour in all aspects of the learning process. Academic credentials you earn are rooted in principles of honesty and academic integrity. **It is your responsibility to understand what constitutes academic dishonesty.**

Academic dishonesty is to knowingly act or fail to act in a way that results or could result in unearned academic credit or advantage. This behaviour can result in serious consequences, e.g. the grade of zero on an assignment, loss of credit with a notation on the transcript (notation reads: "Grade of F assigned for academic dishonesty"), and/or suspension or expulsion from the university. For information on the various types of academic dishonesty please refer to the [Academic Integrity Policy](https://secretariat.mcmaster.ca/university-policies-procedures-guidelines/), located at <https://secretariat.mcmaster.ca/university-policies-procedures-guidelines/>

The following illustrates only three forms of academic dishonesty:

- plagiarism, e.g. the submission of work that is not one's own or for which other credit has been obtained.
- improper collaboration in group work.
- copying or using unauthorized aids in tests and examinations.

### AUTHENTICITY / PLAGIARISM DETECTION

**Some courses may** use a web-based service (Turnitin.com) to reveal authenticity and ownership of student submitted work. For courses using such software, students will be expected to submit their work electronically either directly to Turnitin.com or via an online learning platform (e.g. A2L, etc.) using plagiarism detection (a service supported by Turnitin.com) so it can be checked for academic dishonesty.

Students who do not wish their work to be submitted through the plagiarism detection software must inform the Instructor before the assignment is due. No penalty will be assigned to a student who does not submit work to the plagiarism detection software. **All submitted work is subject to normal verification that standards of academic integrity have been upheld** (e.g., on-line search, other software, etc.). For more details about McMaster's use of Turnitin.com please go to [www.mcmaster.ca/academicintegrity](http://www.mcmaster.ca/academicintegrity).

### COURSES WITH AN ON-LINE ELEMENT

**Some courses may** use on-line elements (e.g. e-mail, Avenue to Learn (A2L), LearnLink, web pages, capa, Moodle, ThinkingCap, etc.). Students should be aware that, when they access the electronic components of a course using these elements, private information such as first and last names, user names for the McMaster e-mail accounts, and program affiliation may become apparent to all other students in the same course. The available information is dependent on the technology used. Continuation in a course that uses on-line elements will be deemed consent to this disclosure. If you have any questions or concerns about such disclosure please discuss this with the course instructor.

### ONLINE PROCTORING

**Some courses may** use online proctoring software for tests and exams. This software may require students to turn on their video camera, present identification, monitor and record their computer activities, and/or lock/restrict their browser or other applications/software during tests or exams. This software may be required to be installed before the test/exam begins.

## **CONDUCT EXPECTATIONS**

As a McMaster student, you have the right to experience, and the responsibility to demonstrate, respectful and dignified interactions within all of our living, learning and working communities. These expectations are described in the [Code of Student Rights & Responsibilities](#) (the “Code”). All students share the responsibility of maintaining a positive environment for the academic and personal growth of all McMaster community members, **whether in person or online**.

It is essential that students be mindful of their interactions online, as the Code remains in effect in virtual learning environments. The Code applies to any interactions that adversely affect, disrupt, or interfere with reasonable participation in University activities. Student disruptions or behaviours that interfere with university functions on online platforms (e.g. use of Avenue 2 Learn, WebEx or Zoom for delivery), will be taken very seriously and will be investigated. Outcomes may include restriction or removal of the involved students’ access to these platforms.

## **ACADEMIC ACCOMMODATION OF STUDENTS WITH DISABILITIES**

Students with disabilities who require academic accommodation must contact [Student Accessibility Services](#) (SAS) at 905-525-9140 ext. 28652 or [sas@mcmaster.ca](mailto:sas@mcmaster.ca) to make arrangements with a Program Coordinator. For further information, consult McMaster University’s [Academic Accommodation of Students with Disabilities](#) policy.

## **REQUESTS FOR RELIEF FOR MISSED ACADEMIC TERM WORK**

McMaster Student Absence Form (MSAF): In the event of an absence for medical or other reasons, students should review and follow the Academic Regulation in the Undergraduate Calendar “Requests for Relief for Missed Academic Term Work”.

## **ACADEMIC ACCOMMODATION FOR RELIGIOUS, INDIGENOUS OR SPIRITUAL OBSERVANCES (RISO)**

Students requiring academic accommodation based on religious, indigenous or spiritual observances should follow the procedures set out in the RISO policy. Students should submit their request to their Faculty Office normally within 10 working days of the beginning of term in which they anticipate a need for accommodation or to the Registrar's Office prior to their examinations. Students should also contact their instructors as soon as possible to make alternative arrangements for classes, assignments, and tests.

## **COPYRIGHT AND RECORDING**

Students are advised that lectures, demonstrations, performances, and any other course material provided by an instructor include copyright protected works. The Copyright Act and copyright law protect every original literary, dramatic, musical and artistic work, **including lectures** by University instructors

The recording of lectures, tutorials, or other methods of instruction may occur during a course. Recording may be done by either the instructor for the purpose of authorized distribution, or by a student for the purpose of personal study. Students should be aware that their voice and/or image may be recorded by others during the class. Please speak with the instructor if this is a concern for you.

## **EXTREME CIRCUMSTANCES**

The University reserves the right to change the dates and deadlines for any or all courses in extreme circumstances (e.g., severe weather, labour disruptions, etc.). Changes will be communicated through regular McMaster communication channels, such as McMaster Daily News, A2L and/or McMaster email.

## **FACULTY OF SOCIAL SCIENCES E-MAIL COMMUNICATION POLICY**

Effective September 1, 2010, it is the policy of the Faculty of Social Sciences that all e-mail communication sent from students to instructors (including TAs), and from students to staff, must originate from the student’s own McMaster

University e-mail account. This policy protects confidentiality and confirms the identity of the student. It is the student's responsibility to ensure that communication is sent to the university from a McMaster account. If an instructor becomes aware that a communication has come from an alternate address, the instructor may not reply at his or her discretion.

### **COURSE MODIFICATION**

The instructor and university reserve the right to modify elements of the course during the term. The university may change the dates and deadlines for any or all courses in extreme circumstances. If either type of modification becomes necessary, reasonable notice and communication with the students will be given with explanation and the opportunity to comment on changes. It is the responsibility of the student to check his/her McMaster email and course websites weekly during the term and to note any changes.