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**Winter 2024**  
**ECON 4706 B – Econometrics I**  
**Department of Economics**  
**Carleton University**

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## 1 Course Information

<b>Instructor:</b>	Konstantinos Metaxoglou
<b>Office:</b>	D-893 LA
<b>Phone:</b>	613-520-2600 (EXT. 3755)
<b>E-mail and website:</b>	<a href="https://brightspace.carleton.ca/">https://brightspace.carleton.ca/</a>
<b>Lectures:</b>	Wednesday and Friday, 11:35am–12:55pm
<b>Tutorials:</b>	Wednesday, 1:05pm–2:25pm
<b>Office hours:</b>	TBA
<b>TA name:</b>	Eric Jamieson
<b>TA e-mail:</b>	TBA
<b>TA office hours:</b>	TBA

**Course and Tutorial Locations:** Log into Carleton Central to view the location on your timetable.

## 2 Preclusions and Prerequisites

Precludes additional credit for ECON 3706. Prerequisite(s): ECON 2210 (or equivalent) with a grade of C+ or higher, and ECON 2220 (or equivalent) with a grade of C+ or higher. Students who believe they have taken a similar background course or courses from another university must provide appropriate documentation to the Department of Economics Undergraduate Administrator.

### **3 Course Description**

The course is an introduction to econometric theory and regression analysis. Topics include estimation methods, hypothesis testing, multicollinearity, autocorrelation, and heteroskedasticity. Additional topics may include specification and data issues, instrumental variables, and panel data methods.

### **4 Learning Outcomes**

The students are expected to develop understanding of basic econometric theory and popular econometric software for linear regression analysis.

### **5 Textbook and Software**

Textbook: J.M. Wooldridge, *Introductory Econometrics, A Modern Approach*, 7th Edition, Cengage. Additional information for the book is available [here](#).

Software: The tutorials and many of the in-class examples will use Stata. Additional information regarding Stata is available [here](#).

### **6 Course Outline**

The course outline below is tentative. The topics covered may change during the term depending on how the class evolves. I may include material from various sources other than the textbook as I see fit. The extent and coverage of each topic will depend on time availability.

1. The Nature of Econometrics and Economic Data
2. The Simple Regression Model
3. Multiple Regression Analysis
4. Heteroskedasticity
5. Specification and Data Issues
6. Instrumental Variables Estimation
7. Panel Data Methods

## 7 Tutorials

The tutorials will focus on practice problems and questions, many of which will be Stata-related. They will help you understand better the material covered in the lectures and prepare for the mid-term and final exams.

## 8 Evaluation

Each student's grade will be calculated using the following instruments and weights:

<b>Instrument</b>	<b>Weight</b>
1st mid-term exam	25%
2nd mid-term exam	25%
Final comprehensive exam	50%
Total	100%

**Mid-term exams:** The 80-minute in-person mid-term exams will take place on Feb-14 [1:05-2:25pm] and Mar-27 [1:05-2:25pm]. Note that these are tentative dates. If you miss a mid-term exam for a documented compelling reason, the assigned weight will be added to the final exam. No makeup mid-term exams will be offered. Note also that you are allowed to miss only 1 mid-term exam and have its weight added to the final exam.

**Final comprehensive exam:** The 3-hour in-person final exam will take place during the formal exam period at a time and location set by the university. Students who do not write the final exam due to circumstances beyond their control may apply to write a deferred final exam. In order to write a deferred final exam, students must contact the Registrar's Office (for further details, see Section 4.3 of the Academic Regulations of the University in the Undergraduate Calendar). In the event that a student writes a deferred exam, the deferred exam will carry the same weight as the final exam in determining the course grade.

## 9 Satisfactory Performance Criteria

Students must fulfill all of the preceding course requirements in order to achieve a passing grade (D- or higher). Failure to write the final exam when the student has achieved satisfactory performance during the term will result in a grade of "F" until an appeal to write the deferred final exam,

if granted by the Registrar's Office. A change of grade will be submitted when the deferred final exam has been written and the marks are available. See Academic Regulation 2.3 for the official meanings of the grades, and note that it stipulates that no course grades are final until approved by the Faculty Dean. Application to write a deferred final exam must be made at the Registrar's Office in writing no later than three working days after the original final exam was scheduled.

## **10 Regrading**

Students seeking reappraisal of their grades should contact the instructor within 1 week after they receive their grades. Students are required to send e-mail to the instructor with the subject "ECON 4706-REQUEST FOR REGRADING" explaining the reason(s) for requesting a reappraisal of their grades.

**Note:** Reappraisals that do not conform to this standard will not be considered.

## **11 Plagiarism**

You are responsible for reading and knowing the information about plagiarism, Carleton University resources, and academic accommodations found [here](#).

## **12 Requests for Academic Accommodation**

You may need special arrangements to meet your academic obligations during the term. For an accommodation request, the processes are as follows:

### **Pregnancy obligation**

Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details, visit the Equity Services website [here](#).

### **Religious obligation**

Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details, visit the Equity Services website [here](#).

### **Academic Accommodations for Students with Disabilities**

If you have a documented disability requiring academic accommodations in this course, please con-

tact the Paul Menton Centre for Students with Disabilities (PMC) at 613-520-6608 or [pmc@carleton.ca](mailto:pmc@carleton.ca) for a formal evaluation or contact your PMC coordinator to send your instructor your Letter of Accommodation at the beginning of the term. You must also contact the PMC no later than two weeks before the first in-class scheduled test or exam requiring accommodation (if applicable). After requesting accommodation from PMC, meet with your instructor as soon as possible to ensure accommodation arrangements are made. For more information, see [here](#).

### **Survivors of Sexual Violence**

As a community, Carleton University is committed to maintaining a positive learning, working and living environment where sexual violence will not be tolerated, and its survivors are supported through academic accommodations as per Carleton's Sexual Violence Policy. For more information about the services available at the university and to obtain information about sexual violence and/or support, see [here](#).

### **Accommodation for Student Activities**

Carleton University recognizes the substantial benefits, both to the individual student and for the university, that result from a student participating in activities beyond the classroom experience. Reasonable accommodation must be provided to students who compete or perform at the national or international level. Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more information, see [here](#).

For more information on academic accommodation, please contact the departmental administrator or see [here](#).