Student or professor materials created for this course (including presentations and posted notes, labs, case studies, assignments and exams) remain the intellectual property of the author(s). They are intended for personal use and may not be reproduced or redistributed without prior written consent of the author(s).

1 Course Information

Instructor: Konstantinos Metaxoglou
Office: D-893 LA
Phone: 613-520-2600 (EXT. 3755)
E-mail and website: https://culearn.carleton.ca
Office Hours: Wednesday, 1:15pm–2:15pm

2 Preclusions and Prerequisites

Precludes additional credit for ECON 3706. Prerequisite(s): ECON 2201 (or equivalent) with a grade of C+ or higher, and ECON 2202 (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, Amanda Wright.

3 Course description

The course is an introduction to econometric theory and analysis of the classical normal regression model. Topics include estimation methods, hypothesis testing, multicollinearity, autocorrelation, and heteroskedasticity. Additional topics may include specification and data issues, and instrumental variables. Through the use of the econometric software Stata and a variety of data sets, students will have the opportunity to learn the basics of empirical work in econometrics.
4 Textbook


5 Course Outline

The course outline below is tentative. The topics covered may change during the term depending on how the class evolves. I may also include material from other sources beyond the WDG chapters listed below.

1. The Nature of Econometrics and Economic Data
   WDG, Chapter 1
2. The Simple Regression Model
   WDG, Chapter 2
3. Multiple Regression Analysis
   WDG, Chapters 3–7
4. Heteroskedasticity
   WDG, Chapter 8
5. Specification and Data Issues*
   WDG, Chapter 9
6. Regression Analysis with Time Series Data*
   WDG, Chapters 10–12
7. Instrumental Variables Estimation*
   WDG, Chapter 15
*The extent and coverage will depend on time availability.

6 Tutorials

The tutorials will focus on homework assignments and practice problems. They will help you understand better the material covered in the lectures and prepare for the mid-term and final examinations. Simply put, I highly recommend them.
7 Stata

Stata is one of the most commonly used econometrics software in academia, business, and government. The tutorials and many of the in-class examples will concentrate on Stata. Stata is available on campus computers and can also be downloaded from http://carleton.ca/ccs/stata/.

8 Evaluation

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

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Four assignments (5% each)</td>
<td>20%</td>
</tr>
<tr>
<td>Mid-term exam</td>
<td>30%</td>
</tr>
<tr>
<td>Final comprehensive exam</td>
<td>50%</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
</tr>
</tbody>
</table>

Assignments: They must be typed and submitted in the class on the due date prior to the beginning of the lecture. There are two additional submission requirements for the assignments: (1) the pages must be stapled together; (2) you must provide a cover page with your information that you will be able to download in PDF format from cuLearn. The due dates for the assignments are: Sep-27, Oct-11, Nov-15, Nov-29. These are tentative dates.

Spending time on your own trying to solve the problems in the assignments is a very good way to understand the material and perform well in the class. Although you are permitted to discuss the material with your classmates, you must ensure that the submitted work is your own; please see the statement on plagiarism below. Office hours offer a good chance to ask questions about the assignments.

A typical assignment will have several questions and will also involve Stata. I will not accept late assignments or assignments that are not typed and do not comply with the submission guidelines (1) and (2) above. If you miss an assignment for a documented compelling reason, the weight for each of the remaining assignments will become 5(1+1/3)%.

Mid-term examination: It will take place during the class on Oct-20. This is a tentative date. If you miss the mid-term examination for a documented compelling reason, the assigned weight will be added to the final exam. No makeup will be offered.

Final comprehensive examination: The 3-hour final examination will take place during the December examination period at a time and place set by the University.
Note: No course grades are final until approved by the Faculty Dean. Note also that course grades may be scaled upwards or downwards in a rank-preserving manner to better fit the relevant departmental distributional norm. Application to write a deferred final examination must be made at the Registrar’s Office.

9 Regrading

Students seeking reappraisal of their graded assignment or mid-term examination 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 B-REQUEST FOR REGRADING” explaining the reason(s) for requesting a reappraisal of their graded work.

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

10 Plagiarism

Please be aware that plagiarism is serious offense at Carleton and should be recognized and avoided. For further information on how to do so, please see “Pammett on Plagiarism and Paraphrasing” at www.carleton.ca/economics/courses/writing-preliminaries.

11 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: write to me 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 see the Student Guide.

Religious obligation: write to me 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 see the Student Guide.

Academic Accommodations for Students with Disabilities: The Paul Menton Centre for Students with Disabilities (PMC) provides services to students with Learning Disabilities (LD), psychiatric/mental health disabilities, Attention Deficit Hyperactivity Disorder (ADHD), Autism Spectrum Disorders (ASD), chronic medical conditions, and impairments
in mobility, hearing, and vision. If you have a disability requiring academic accommodations in this course, please contact PMC at 613-520-6608 or pmc@carleton.ca for a formal evaluation. If you are already registered with the PMC, contact your PMC coordinator to send me your Letter of Accommodation at the beginning of the term, and 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 me to ensure accommodation arrangements are made. Please consult the PMC website for the deadline to request accommodations for the formally-scheduled exam (if applicable).