CARLETON UNIVERSITY
Department of Economics

ECON 2220 B Introductory Econometrics

Course Outline

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Prerequisites
The prerequisites for this course are ECON 2210 (or equivalent) with a grade of C- or higher, and ECON 1402 (or equivalent) with a grade of C- or higher, as outlined in the 2017-2018 Undergraduate Calendar. Students who believe that 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 (LA C875).

Please note that a grade of C+ or higher in this course is required to qualify for ECON 3900, ECON 3920, ECON 4002, and ECON 4706. DEF(erred final grade) status at the end of this course precludes (continued) registration in any other course for which the former is a prerequisite.

Introduction
This course builds on the material covered in ECON 2210. Topics include correlation, simple and multiple linear regression, and an introduction to statistical computing using an econometrics package. The emphasis is on understanding appropriate methods and their properties, as distinct from their formal theoretical development. Empirical applications are included.
Precludes additional credit for ECON 2200 (no longer offered), ECON 2202 (no longer offered), STAT 2509, and STAT 2607.

Organization
The class will meet twice a week at 10:05 a.m. on Tuesdays and Thursdays for an 80 minute lecture. In addition, an 80 minute tutorial session has been scheduled for 11:35 a.m. on Thursdays. The tutorial sessions will be used for additional coverage of important course material, together with assignment-related activities.

There will be four (4) required assignments and a final exam. The final exam will be scheduled by Examination Services during the regular final examinations period (April 14-26).

cuLearn and the Carleton email system will be used extensively as a means of communication with students. Therefore, students are strongly advised to access cuLearn and check their Carleton email at regular intervals in order to check for new information. To access cuLearn and the Carleton email system, students require a MyCarletonOne account. For questions about MyCarletonOne accounts, students should access http://carleton.ca/ccs/get-started/ (and then click on either New Students or New Grad Students, as appropriate) or contact the ITS Service Desk (4th Floor, MacOdrum Library, telephone: 613-520-3700).

Academic Integrity
Please ensure that you are familiar with and comply with the Carleton University Academic Regulations as they apply to Academic Integrity: http://calendar.carleton.ca/undergrad/regulations/academicregulationsoftheuniversity/academicintegrity/

Assignments
Assignments will be posted on cuLearn and will be due in class according to the following schedule:

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Posted</th>
<th>Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assignment 1</td>
<td>January 25</td>
<td>February 8</td>
</tr>
<tr>
<td>Assignment 2</td>
<td>February 15</td>
<td>March 8</td>
</tr>
<tr>
<td>Assignment 3</td>
<td>March 8</td>
<td>March 22</td>
</tr>
<tr>
<td>Assignment 4</td>
<td>March 22</td>
<td>April 5</td>
</tr>
</tbody>
</table>

Students may wish to work together on assignment material, BUT each student MUST write up their own assignments INDEPENDENTLY. In this connection, please be sure to read Section 14.3 of the Academic Regulations of the University in the 2017-2018 Undergraduate Calendar, especially with regard to plagiarism and unauthorized cooperation and collaboration. For further information on recognizing and avoiding plagiarism, see “Pammett on Plagiarism and Paraphrasing” at www.carleton.ca/economics/course/writing-preliminaries
Evaluation
The final % grade for this course will be calculated as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Weightage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assignments</td>
<td>40%</td>
</tr>
<tr>
<td>Final Examination</td>
<td>60%</td>
</tr>
</tbody>
</table>

This % grade will then be converted into the alphabetical grade system using the standard equivalences, as outlined in Section 2.3 of the Academic Regulations of the University in the 2017-2018 Undergraduate Calendar.

In the event that one or more assignments are not submitted, the weight of the missed assignment(s) will not be transferred to the final examination without a documented and compelling reason.

Students who do not write/attend the final examination because of illness or other circumstances beyond their control may apply to write a deferred examination. In order to write a deferred examination, students must contact the Registrar’s Office. (For further details, see Section 2.5 of the Academic Regulations of the University in the 2017-2018 Undergraduate Calendar.) In the event that a student writes a deferred examination, the deferred examination will carry the same weight as the final examination in determining the course grade. Needless to say, any deferred examination will not be identical to the original final examination.

Also, course grades may be scaled upwards or downwards in a rank-preserving manner in order to better fit the relevant departmental distributional norm. Finally, please note that: “Standing in a course is determined by the course instructor subject to the approval of the Faculty Dean. This means that grades submitted by an instructor may be subject to revision. No grades are final until they have been approved by the Dean.”

Academic Accommodation
You may need special arrangements to meet your academic obligations during the term because of disability, pregnancy or religious obligations. Please review the course outline promptly and 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.

Students with disabilities requiring academic accommodations in this course must register with the Paul Menton Centre for Students with Disabilities (PMC) for a formal evaluation of disability-related needs. Documented disabilities could include but are not limited to mobility/physical impairments, specific Learning Disabilities (LD), psychiatric/psychological disabilities, sensory disabilities, Attention Deficit Hyperactivity Disorder (ADHD), and chronic medical conditions. Registered PMC students are required to contact the PMC, 613-520-6608, every term to ensure that your Instructor receives your Letter of Accommodation, no later than two weeks before the first assignment is due or the first in-class test/midterm requiring accommodations. If you only require accommodations for your formally scheduled exam(s) in this course, please submit your request for accommodations to PMC by March 9, 2018.

You can visit the Equity Services website to view the policies and to obtain more detailed information on academic accommodation at www.carleton.ca/equity/accommodation
**Academic Assistance**  
Students should be aware of and feel free to take advantage of the services of the Writing Tutorial Service (4th Floor, MacOdrum Library) and the Student Academic Success Centre (TB 302).

**Required Textbook**  

**Computer Package**  
An integral part of this course will be the use of the STATA econometrics computer package.

Personal copies of STATA will be available for download under Carleton’s STATA site-licence. Details will be provided in class.

STATA will also be available for use through the Carleton student computer networks.

**Course Content**

1. Introduction and Overview, Studenmund - Ch. 1.  
2. Ordinary Least Squares, Studenmund - Ch. 2.  
3. Learning to Use Regression Analysis, Studenmund - Ch. 3.  
4. The Classical Model, Studenmund - Ch. 4.  
5. Hypothesis Testing and Statistical Inference, Studenmund - Ch. 5.  
7. Specification: Choosing a Functional Form, Studenmund - Ch. 7.  
8. Multicollinearity, Studenmund - Ch. 8.  
9. Serial Correlation, Studenmund - Ch. 9.  
10. Heteroskedasticity, Studenmund - Ch. 10.  
11. Running Your Own Regression Project, Studenmund - Ch. 11.

**IF YOU HAVE PROBLEMS WITH THIS COURSE, PLEASE LET ME KNOW!**  
**IF I DON’T KNOW THAT YOU HAVE PROBLEMS, I CAN’T FIX THEM!**