APPLIED ECONOMETRICS I
ECONOMICS 3388A-001
Department of Economics
Western University

Paul Sullivan                                                                                September, 2014

Office: 4060 SSC                                                                                       
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E-mail: psulliv8@uwo.ca                                                                               
Office Hours:  T, TH: 1:00-2:00 or by appointment                                                       
Classroom meeting times & locations: M: 10:30-12:30, UCC 54A; W. 10:30-11:30, SSC 1032
Course website: owl.uwo.ca                                                                           
Undergraduate inquiries: 519-661-3507 SSC Room 4075 or econugrd@uwo.ca

Registration

You are responsible for ensuring you are registered in the correct courses. If you are not
registered in a course, the Department will not release any of your marks until your registration
is corrected. You may check your timetable by using the Login on the Student Services website
at https://studentservices.uwo.ca/secure/index.cfm. If you notice a problem, please contact your
home Faculty Academic Counsellor immediately.

Prerequisite Note

The prerequisite for this course is Economics 2223A/B.

You are responsible for ensuring that you have successfully completed all course prerequisites,
and that you have not taken an anti-requisite course. Lack of prerequisites may not be used as a
basis for appeal. If you are found to be ineligible for a course, you may be removed from it at
any time and you will receive no adjustment to your fees. This decision cannot be appealed.

If you find that you do not have the course prerequisites, it is in your best interest to drop the
course well before the end of the add/drop period. Your prompt attention to this matter will not
only help protect your academic record, but will ensure that spaces become available for students
who require the course in question for graduation.

Course Objectives:

This course is designed to give Economics Honours Students a deeper understanding of modern
econometrics tools. A primary focus of the course is on providing extended practical experience
in estimating econometric models using real-world data sources. The topics that we will cover
include: 1) theoretical properties of econometric models designed for different data structures; 2)
empirical applications of these techniques, and 3) skills for data analysis. Specific areas of study
include Time Series Analysis, Panel Data Analysis, Instrumental Variable (IV) Estimators,
Simultaneous Equations Models, and Limited Dependent Variable Models. The course presumes
that students are familiar with elementary calculus and linear algebra. The software STATA will
be used for empirical analysis. More details about the software and lab sessions will be provided during the course.

**Learning Outcomes:**

Students who successfully complete the course will learn how to:

- analyze data sources used in empirical research.
- analyze econometric techniques used on different types of data.
- apply these techniques to real-world data sources using STATA.
- interpret parameter estimates from different econometric models.
- formulate econometric models to answer empirical questions.

**Text:** Wooldridge, Jeffrey (2013): Introductory Econometrics, 5th edition, South-Western.

**Grading:**

- Assignments (15%)
- Two exams (25% each)
- Final exam (35%)

Homework assignments are due at the start of class on the due date. Late assignments, and assignments not handed in will receive a grade of zero. The best five score out of the six assignments will count towards your grade.

The exams will be held on Monday, Sept. 29 and on Monday, Nov. 10 in the normal classroom (UCC-54A). There will not be any make-up tests for the exams. If you are unable to take an exam for a medical reason and provide appropriate documentation for it, the weight will be added to the final exam.

The time and location of the final exam will be announced in class.
**Topics and Schedule:**

Adjustments to the course schedule will be made as needed, and will be announced in class.

<table>
<thead>
<tr>
<th>Week</th>
<th>Dates</th>
<th>Classroom</th>
<th>Computer Lab</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Sept. 8, 10</td>
<td>Probability &amp; Statistics (Appendix B &amp; C)</td>
<td>Introduction to STATA</td>
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<tr>
<td></td>
<td></td>
<td>Linear Regression (Ch. 2-5)</td>
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<tr>
<td>2</td>
<td>Sept. 15, 17</td>
<td>Linear Regression (Ch. 2-5) (HW 1 due)</td>
<td>Empirical applications</td>
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<td>3</td>
<td>Sept. 22, 24</td>
<td>Time Series (Ch. 10)</td>
<td>Empirical applications (HW 2 due)</td>
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<td>4</td>
<td>Sept. 29, Oct. 1</td>
<td>Exam 1</td>
<td>Empirical applications</td>
</tr>
<tr>
<td>5</td>
<td>Oct. 6, 8</td>
<td>No Class (Thanksgiving)</td>
<td>Empirical applications</td>
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<tr>
<td>6</td>
<td>Oct. 13, 15</td>
<td>Panel 1 (Ch. 13)</td>
<td>Empirical applications</td>
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<td>7</td>
<td>Oct. 20, 22</td>
<td>Panel 2 (Ch. 14) (HW 3 due)</td>
<td>Empirical Applications</td>
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<td>8</td>
<td>Oct. 27, 29</td>
<td>IV/2SLS (Ch. 15)</td>
<td>Empirical Applications (HW 4 due)</td>
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<tr>
<td>9</td>
<td>Nov. 10, 12</td>
<td>Exam 2</td>
<td>Empirical Applications</td>
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<tr>
<td>10</td>
<td>Nov. 17, 19</td>
<td>Simultaneous Equation Models (Ch. 16)</td>
<td>Empirical Applications (HW 5 due)</td>
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<td>11</td>
<td>Nov. 24, 26</td>
<td>Limited Dep. Variable Models (Ch. 17)</td>
<td>Empirical Applications</td>
</tr>
<tr>
<td>12</td>
<td>Dec. 1, 3</td>
<td>Limited Dep. Variable Models (Ch. 17)</td>
<td>Review Session (HW 6 due)</td>
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Please Note
Department Policies for 2014 – 2015

Remember that the University expects all students to take responsibility for their own academic Programs. Also remember to check your registration to make sure you are enrolled in the correct courses.

1. Guidelines and policies for the Faculty of Social Science and the Department of Economics are posted online in the current Western Academic Calendar at http://westerncalendar.uwo.ca.


3. **Cheating as an academic offence:** Students are responsible for understanding what it means to “cheat”. The Department of Economics treats cheating incidents very seriously and will investigate any suspect behavior. Students found guilty will incur penalties that could include a failing grade or being barred from future registration in other economics courses or programs. The University may impose further penalties such as a notation on your official academic transcript, suspension or expulsion.

4. **Plagiarism:** Students must write their essays and assignments in their own words. Whenever students take an idea or a passage from another author, they must acknowledge it by using quotation marks where appropriate and referencing with footnotes or citations. Plagiarism is a major academic office (see Scholastic Offence Policy in the current UWO Academic Calendar at http://westerncalendar.uwo.ca/2014/pg113.html). The University of Western Ontario uses software to check for plagiarism and students may be required to submit their written work in electronic form. Those found guilty will have penalties imposed as noted in point 3.

5. It is Department of Economics policy that **NO** assignments be dated, stamped or accepted by staff. Students are responsible for submitting assignments in class or to the instructor during office hours.

6. When appealing a mark, students should refer to the University’s Procedures in the current UWO Academic Calendar (http://westerncalendar.uwo.ca/2014/pg112.html). Please note the relevant deadlines.

   The Department will not consider any appeal unless an attempt has been made to settle the matter first with your instructor. If after this discussion you remain dissatisfied with a grade or other decision, you may proceed with a written appeal (e-mails are not acceptable) to the Undergraduate Director in Economics, stating the reasons for your appeal. A useful form and checklist is provided at (http://economics.uwo.ca/undergraduate/program_counselling/responsibilities_policies.html#appeals).
7. Systematic adjustments of a class grade distribution (either up or down) can occur in Economics courses. The fact that grades have been adjusted is **not** grounds for an appeal.

8. Note the following add and drop deadlines:

   Last day to **add** a full course or First term half course:  
   **Friday, September 12**\(^{th}\), 2014

   Last day to **drop** second term half course without academic penalty:  
   **Wednesday, November 5**\(^{th}\), 2014

9. Faculty of Social Science policy states that oversleeping or misreading an exam schedule is not an excuse for a make-up. This rule applies to all mid-term tests and final exams in the Department of Economics.

   **Policy Regarding Makeup Tests and Final Examinations**

   **Academic Accommodation will not be granted automatically on request. You must demonstrate by documentation that there are compelling medical or compassionate grounds before academic accommodation will be considered.**

   If you decide to write a test or an examination, you must be prepared to accept the mark you earn. Rewriting tests or examinations, or having the value of the test or examination reweighted on a retroactive basis, is **not** permitted. Book airline flights after you know the dates of your final examinations. Airline flights must not conflict with test or final exams.

   If you are requesting a makeup test for a midterm or a final examination, unless medically incapable, notify your instructor by email or phone, preferably prior to the scheduled date of the test, but definitely within **24 hours** of the date of the test or exam. Failure to follow this procedure may result in denial of a request for academic accommodation or result in a grade of zero. Set up an appointment as soon as possible to meet personally with your instructor. If the instructor is not available, you may send an email message, copying the Undergraduate Coordinator at econugrd@uwo.ca (Social Science Room 4075). **Notifying your instructor of a missed test or exam does not automatically entitle you to a makeup test.**

   Students who seek a makeup test or examination must provide medical or other relevant verification that their absence from a regularly scheduled test or examination is beyond their control. Documentation must support your reasons. Medical documentation should be given to the Academic Counselling Office of your home Faculty **as soon as possible (preferably within 24 hours of the test)** if you know you may not be able to write your final examination on the scheduled day and time. Failure to follow this procedure, or to provide supporting documentation, may result in denial of a request for academic accommodation or result in a grade of zero. If your documentation is not acceptable, you will be given a zero for the missed test.

   For personal illness, if you consult Student Health Services regarding your illness or personal problem, you should request a Student Medical Certificate from the physician. If
you were seen by an off-campus doctor, obtain a certificate from his/her office at the time of your visit. The off-campus medical certificate form must be used and can be found at: http://www.uwo.ca/univsec/pdf/academic_policies/appeals/medicalform.pdf. Notes stating "For Medical Reasons" are not considered sufficient.

For any other circumstances, if you are not sure what documentation to provide, ask your Academic Counselor. If your documentation is judged sufficient, the academic counselor will issue a Recommendation for a Special Examination (a single form for midterms or a triple color form for final examinations). Once you have this form, contact your instructor as soon as possible to make arrangements. Even if approved from your home faculty Academic Counsellor, there is no guarantee that you will be allowed to write the makeup test and exam.

For final examinations, you need permission from your home Faculty Counsellor, your instructor, and the Department Undergraduate Director. Failure to follow this procedure may result in an examination grade of zero. You must ensure that the Special Examination form has been signed by the instructor and Department Undergraduate Director and that the form is returned to the Academic Counseling Office for approval without delay. Make-up final examinations, if permitted, will be written within one month of the end of the exam period.

Policies Regarding Academic Accommodation

Information about the Faculty of Social Science’s policies regarding academic accommodation is found on its website at http://counselling.ssc.uwo.ca/procedures/havingproblems.asp or in Social Science Room 2105. Your “Academic Rights and Responsibilities” are also outlined in the current UWO Calendar at http://westerncalendar.uwo.ca/2014/pg111.html. Claiming that “you didn’t know what to do” is not an acceptable excuse for not following the stated procedures.

Policy Regarding Class Attendance

If your instructor views your class attendance as unsatisfactory, you can be prohibited from writing the final examination. If there is intent to make use of this University policy, you will be notified in writing.

Statement on Mental Health and Support Services

If you or someone you know is experiencing emotional/mental distress, there are several resources here at Western to assist you. Please visit http://www.uwo.ca/uwocom/mentalhealth/ for more information and a complete list of resources, as well as how to obtain help.