ECONOMICS 345: APPLIED ECONOMETRICS

Fall Term 2018: Sections A01 & A02

Dr Judith A Clarke

OVERVIEW: The aim of this course is to provide a basic introduction into some of the key issues in econometrics, focussing our attention on the classical linear simple and multiple regression models. Throughout we will use real-world applications to illustrate concepts and techniques. Although our concentration is on the application of the basic ideas, we will explore some important repeated sampling concepts associated with estimation and inference. Should you be considering a graduate degree in economics, I suggest you undertake Econ 365 and Econ 366, as these two courses will prepare you more adequately than will Econ 345 for a first graduate course in econometrics.

LECTURES:
A01: Monday & Thursday 10am–11:20am in CLE A212.
A02: Monday & Thursday 1pm–2:20pm in CLE A212.

The two sections will remain coordinated with each other (as much as possible!). Your learning will improve by briefly reading the class notes prior to the lecture 😊 Course notes, assignments, exercises and any other information will be available via CourseSpaces – please note to use the combined A01/A02 link: 201809 ECON 345 A01 / ECON 345 A02 X.

LABORATORY CLASSES: All are in the BEC computer labs.
B01: Tuesday 2:30pm-3:20pm; B02: Tuesday 3:30pm-4:20pm;
B03: Tuesday 4:30pm-5:20pm; B04: Wednesday 2:30pm-3:20pm;
B05: Wednesday 3:30pm-4:20pm; B06: Wednesday 4:30pm-5:20pm.

It does not matter which lab class you attend, as they will be undertaking the same exercises each week. What is important for your learning is that you go to the labs – they will crucially assist your understanding by applying the material considered in class. I urge you to read through the lab exercise PRIOR to the lab class – this takes only a few moments but makes a surprising difference to your learning. Labs, which will be led by the teaching assistants, begin the second week of term. Students are required to attend at least 10 of the 12 laboratory classes in order to complete Econ345 and not to be assigned an N grade. Lab attendance will form part of your assessment, as detailed below. We will be using the EViews econometrics package for all applications.

CONSULTATION: My office time for Econ345 students is Monday 3:30pm-5pm and Thursday 4pm-5:30pm. Please also avail yourself of the consultation times for the TAs, which will be posted on CourseSpaces.
**Email:** You should not use email to communicate with me – I will not consider them or acknowledge any emails from you. I strongly encourage you to ask any clarifying questions about the syllabus and other matters at the beginning of class. For more in-depth discussions (such as on course material) please plan to meet with me during my office time. Conversations are far better in person rather than via email, as it allows us to get to know each other better, enabling me to better appreciate your concerns.

**TEXT:** The required text for this course is:


The UVic Bookstore is selling this text as a loose-leaf package along with a MindTap access code for approximately $135; this includes access to an online e-book version of the text. Alternatively, should you be happy with only access to the online e-book version of the text, you can purchase just a MindTap access code for approximately $105. You **MUST** have a MindTap access code as using MindTap will form part of your assessment in the course, and I will be providing additional (non-assessed) MindTap exercises for you to practice concepts and ideas. I will also be posting (via CourseSpaces) practice exercises for each topic – these are also non-assessed. Please use your name as specified in CourseSpaces when registering for MindTap.

**GRADING:** Your grade will be determined by lab attendance, assignments, online MindTap exercises, IClicker in-class pop quizzes, a term test and a final examination. The term test and final examination will be “closed book/closed notes”; any formulae that you require will be given on the test paper. Details on coverage will be provided. Some relevant information follows:

1. **Assignments (6):** Weight = 25%. Due Sep 21, Oct 5, Oct 19, Nov 2, Nov 16, Nov 30. **You must complete at least 5 assignments.** Should you complete all 6 assignments then I will use the marks from your best 5 assignments. Each of these 5 assignments will be given a weight of 5% towards your final grade.

**Notes:**
- To ensure fairness, the only opportunity for you to ask clarifying questions about an assignment is at the beginning of class. I will then discuss any questions with the entire class.
- While I encourage group learning, your answers to the assignment questions, including the computer outputs, must be your own independent work.
- Put your assignment in the Econ 345 box outside the Main Economics Office by 5 p.m. on the due date. In order to ensure that your grade gets properly recorded, write your name, student number, laboratory section number and course number on the front page of your assignment.
- No late assignment will be accepted. If you miss an assignment due to medical reasons, please give me an appropriate medical certificate at the beginning of class or during my office time. The weight of the uncompleted assignment will be reassigned equally to the other assignments.

2. **Term Test:** Weight = 20%. The term test will be held in class on Thursday October 25; you must undertake the term test.
3. **Final Examination:** Weight = 30%. The final examination date will be announced in due course; the final examination must be undertaken.

4. **MindTap Aplia Exercises (12):** Weight = 12%. Due Sep 14, Sep 21, Sep 28, Oct 5, Oct 12, Oct 19, Oct 26, Nov 2, Nov 9, Nov 23, Nov 30, Dec 7. **You must complete at least 10 MindTap Aplia exercises.** Should you complete more than 10 exercises then I will use the marks from your best 10 exercises. Each of these 10 exercises will be given a weight of 1.2% towards your final grade.

5. **In-class IClicker Pop Quizzes:** Weight = 8%. **You must undertake at least 8 of the in-class IClicker pop quizzes, with each worth 1% each.** If you complete more than 8 of the in-class quizzes, you will receive a bonus of 1% for each additionally completed quiz. Please ensure that your IClicker is registered via your MyPage.

6. **Lab Attendance:** Weight at most 5%. As stated you must attend at least 10 of the 12 laboratory classes, handing in the small exercises at the end of class to the TA. These exercises will not be marked but you will receive a 1 (completed) or 0 (not completed) in CourseSpaces for the lab class. **If you attend all 12 labs then you will score 5% towards your final grade; if you attend 11 of the 12 labs then you will score 4% towards your final grade and if you attend 10 of the 12 labs then you will score 3% towards your final grade.**
LETTER GRADES: All assessment in this course will be assigned a numerical score. Each will then be appropriately weighted to give a total score for the course out of a possible 100%. The following will be used.

<table>
<thead>
<tr>
<th>Passing Grades</th>
<th>Grade Point Value</th>
<th>Percentage</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>9</td>
<td>90-100</td>
<td>Exceptional, outstanding and excellent performance. Normally achieved by a minority of students. These grades indicate a student who is self-initiating, exceeds expectations and has an insightful grasp of the subject matter.</td>
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<tr>
<td>A</td>
<td>8</td>
<td>85-89</td>
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<tr>
<td>A-</td>
<td>7</td>
<td>80-84</td>
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</tr>
<tr>
<td>B+</td>
<td>6</td>
<td>77-79</td>
<td>Very good, good and solid performance. Normally achieved by the largest number of students. These grades indicate a good grasp of the subject matter or excellent grasp in one or more areas balanced with satisfactory grasp in other areas.</td>
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<td>B</td>
<td>5</td>
<td>73-76</td>
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<tr>
<td>B-</td>
<td>4</td>
<td>70-72</td>
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<tr>
<td>C+</td>
<td>3</td>
<td>65-69</td>
<td>Satisfactory, or minimally satisfactory. These grades indicate a satisfactory performance and knowledge of the subject matter.</td>
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<tr>
<td>C</td>
<td>2</td>
<td>60-64</td>
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<tr>
<td>D</td>
<td>1</td>
<td>50-59</td>
<td>Marginal performance. A student receiving this grade demonstrated a superficial grasp of the subject matter.</td>
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<tr>
<th>Failing Grades</th>
<th>Grade Point Value</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>F</td>
<td>0</td>
<td>0-49</td>
<td>Unsatisfactory performance. Wrote final exam and completed course requirements; no supplemental.</td>
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<tr>
<td>N</td>
<td>0</td>
<td>0-49</td>
<td>Did not write final examination or complete course requirements by the end of term or session; no supplemental.</td>
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</table>

Note that E grades will not be assigned.

To avoid receiving an “N” grade in Econ345, you must complete the following components of the course:

1. Attend at least 10 laboratory classes;
2. Submit at least 5 assignments;
3. Complete at least 10 online MindTap Aplia exercises;
4. Undertake at least 8 IClicker pop quizzes in class;
5. Undertake the term test and the final examination.
COURSE OUTLINE AND TENTATIVE SCHEDULE
Relevant chapters for the Wooldridge text are provided in parenthesis; note that we may not cover all the material in a chapter. It is most likely that we will not cover much beyond Topic 7 or Topic 8. For the purposes of your studying you should be guided by the material covered in class, labs and assignments.

**Topic 1:** Econometrics & Economic Data (Chapter 1)

**Part 1: Regression Analysis with Cross-Sectional Data**

**Topic 2:** Simple Linear Regression (Chapter 2)

**Topic 3:** Multiple Regression Analysis: Estimation (Chapter 3)

**Topic 4:** Multiple Regression Analysis: Inference (Chapter 4)

**Topic 5:** Multiple Regression Analysis: Some Asymptotics (Chapter 5)

**Topic 6:** Multiple Regression Analysis: Further Issues (Chapter 6)

**Topic 7:** Multiple Regression Analysis with Dummy Variables (Chapter 7)

**Topic 8:** Heteroskedasticity (Chapter 8)

**Part 2: Regression Analysis with Time-Series Data**

**Topic 9:** Basic Regression Analysis with Time Series Data (Chapter 10)

**Topic 10:** Further Issues with Time Series Data (Chapter 11)

**Topic 11:** Serial Correlation & Heteroskedasticity in Time Series Regression (Chapter 12)
The University of Victoria is committed to promoting critical academic discourse while providing a respectful and productive learning environment. All members of the university community have the right to experience, and the responsibility to help create, such an environment.

COURSE POLICIES

- I assume that students are familiar with all Department of Economics course policies. These are detailed at http://www.uvic.ca/socialsciences/economics/undergraduate/home/course%20policies/index.php and cover: academic concession; attendance; grading; inclusivity and diversity; late adds; late assignments; repeating courses; review of an assigned grade; students with a disability; term assignments and debarment from examinations; travel plans.
  - Details regarding academic integrity, including cheating and plagiarism are given below.
  - To avoid receiving an incomplete (‘N’) for Econ345 you must: attend at least 10 laboratory classes; hand in at least 5 assignments; complete at least 10 online MindTap exercises; undertake at least 8 in-class iClicker pop quizzes, undertake the term test and the final examination.
  - Students with a disability. If you plan on seeking an academic accommodation then you are expected to contact the Resource Centre for Students with a Disability as early as possible.
  - Repeating the course. According to the University of Victoria Calendar http://web.uvic.ca/calendar

“A student may not attempt a course a third time without the prior approval of the Dean of the Faculty and the Chair of the Department in which the course is offered unless the calendar course entry states that the course may be repeated for additional credit. A student who has not received this approval may be deregistered from the course at any point and may be asked to withdraw from his or her declared or intended program.”

In order to request permission to attempt this course for the third time, you must follow the instructions provided under the link Repeating Courses at http://www.uvic.ca/socialsciences/economics/undergraduate/home/course%20policies/index.php

Failure to obtain permission will result in deregistration from the course.

- To repeat the remarks above:
  - Questions regarding class material must be asked during class or my office time. Come talk with me in person!
  - Questions about course assignments must be asked at the beginning of class and will not be answered outside of class time. This ensures that all students receive the same information on an assignment.
  - Emails will be disregarded.
- Accommodation for missed in-course tests and late assignments will be given only on the basis of documented illness, accident, or family affliction. Students should immediately consult with a physician, a counsellor, or another health professional to obtain official documentation. This documentation must specifically cover the date of the missed examination or assignment deadline; it should normally be dated on or before this date and be submitted to me within 10 days of this date. Please give me the appropriate documentation during my office time or in class.
- Please keep a copy of all work – including material that you hand in or material that is returned – until final marks have been posted.
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- **Privacy Issues Related to Undertaking the Online MindTap Exercises:** CourseSpaces provides a document entitled “Nelson Privacy Consent” that you must carefully read, print, sign and date, returning your signed document to me, in class, as soon as possible. This document relates to you providing permission for storage of some information on a US based server, as needed for you to undertake the MindTap exercises. Please contact me with any concerns that you may have.

- **MindTap Exercises:** CourseSpaces provides a document entitled "How to access MindTap for Econ345" which you should read to enable you to undertake the MindTap exercises that form part of this course. Please recall that you can purchase your access code from the Bookstore as described above.
**DRAFT SCHEDULE:** Below is the draft schedule for this course, which may alter given progress through the term. Any changes will be discussed in class.

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<th>MONDAY DATE</th>
<th>LECTURE WEEK</th>
<th>MONDAY</th>
<th>TUESDAY</th>
<th>WEDNESDAY</th>
<th>THURSDAY</th>
<th>FRIDAY</th>
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<td>MINDTAP 11</td>
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<td>NOV 30</td>
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<tr>
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<td>LEC 24</td>
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<td>DEC 6</td>
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<td>MINDTAP 12</td>
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<td>DEC 5</td>
<td>DEC 7</td>
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UNIVERSITY OF VICTORIA POLICY ON ACADEMIC INTEGRITY
Principles of Academic Integrity

Academic integrity requires commitment to the values of honesty, trust, fairness, respect, and Responsibility. It is expected that students, faculty members and staff at the University of Victoria, as members of an intellectual community, will adhere to these ethical values in all activities related to learning, teaching, research and service. Any action that contravenes this standard, including misrepresentation, falsification or deception, undermines the intention and worth of scholarly work and violates the fundamental academic rights of members of our community. This policy is designed to ensure that the university’s standards are upheld in a fair and transparent fashion. Students are responsible for the entire content and form of their work. Nothing in this policy is intended to prohibit students from developing their academic skills through the exchange of ideas and the utilization of resources available at the university to support learning (e.g., The Centre for Academic Communication). Students who are in doubt as to what constitutes a violation of academic integrity in a particular instance should consult their course instructor.

Definitions
In this policy:
• “work” is defined as including the following: written material, laboratory work, computer work, computer code, assignments, research materials, research results, musical or art works, oral reports, audiovisual or recorded presentations, lesson plans, and material in any medium submitted to an instructor for grading purposes.
• “Dean” is defined as the Dean of a student’s faculty and, in the case of graduate students, is defined as the Dean of Graduate Studies.
• “Chair” is defined as including the Chair or Director of a unit or, in the case of non-departmentalized faculties, the Dean.
• “instructor” is defined to include instructors and graduate supervisors.

Academic Integrity Violations
Academic integrity violations covered by this policy can take a number of forms, including the following:

Plagiarism
A student commits plagiarism when he or she:
• submits the work of another person in whole or in part as original work
• gives inadequate attribution to an author or creator whose work is incorporated into the student’s work, including failing to indicate clearly (through accepted practices within the discipline, such as footnotes, internal references and the crediting of all verbatim passages through indentations of longer passages or the use of quotation marks) the inclusion of another individual’s work
• paraphrases material from a source without sufficient acknowledgment as described above

The university reserves the right to use plagiarism detection software programs to detect plagiarism in essays, term papers and other work.

Unauthorized Use of an Editor
An editor is an individual or service, other than the instructor or supervisory committee, who manipulates, revises, corrects or alters a student’s written or non-written work. The use of an editor, whether paid or unpaid, is prohibited unless the instructor grants explicit written authorization. The instructor should specify the extent of editing that is being authorized. Review by fellow students and tutoring that do not include editing are normally permitted. In addition to consulting with their instructors, students are encouraged to seek review of and feedback on their work.
that prompts them to evaluate the work and make changes themselves.

**Multiple Submission**
Multiple submission is the resubmission of work by a student that has been used in identical or similar form to fulfill any academic requirement at UVic or another institution. Students who do so without prior permission from their instructor are subject to penalty.

**Falsifying Materials Subject to Academic Evaluation**
Falsifying materials subject to academic evaluation includes, but is not limited to:
- fraudulently manipulating laboratory processes, electronic data or research data in order to achieve desired results
- using work prepared in whole or in part by someone else (e.g., commercially prepared essays) and submitting it as one’s own
- citing a source from which material was not obtained
- using a quoted reference from a non-original source while implying reference to the original source
- submitting false records, information or data, in writing or orally

**Cheating on Work, Tests and Examinations**
Cheating includes, but is not limited to:
- copying the answers or other work of another person
- sharing information or answers when doing take-home assignments, tests or examinations except where the instructor has authorized collaborative work
- having in an examination or test any materials or equipment other than those authorized by the examiners
- accessing unauthorized information when doing take-home assignments, tests or examinations
- impersonating a student on an examination or test, or being assigned the results of such impersonation
- accessing or attempting to access examinations or tests before it is permitted to do so

Students found communicating with one another in any way or having unauthorized books, papers, notes or electronic devices in their possession during a test or examination will be considered to be in violation of this policy.

**Aiding Others to Cheat**
It is a violation to help others or attempt to help others to engage in any of the conduct described above.

**Procedures for Dealing with Violations of Academic Integrity**
Procedures for determining the nature of alleged violations involve primarily the course instructor and the Chair. Procedures for determining an appropriate penalty also involve Deans, the Vice-President Academic and Provost and, in the most serious cases, the President.

**Allegations**
Alleged violations must be documented by the instructor, who must inform the Chair. The Chair shall then inform the student in writing of the nature of the allegation and give the student a reasonable opportunity to respond to the allegation. Normally, this shall involve a meeting between the instructor, the Chair, the student and, if the student requests in advance, another party chosen by the student to act as the student’s adviser. If the student refuses to provide a response to the allegation or to participate in the process, the Chair may proceed to make a determination.

**Determining the Nature of the Violation**
The Chair shall make a determination as to whether compelling information exists to support the allegation.

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Determining Appropriate Penalties
If there is compelling information to support the allegation, the Chair shall contact the Office of the Registrar to determine if the student’s record contains any other confirmed academic integrity violations. If there is no record of prior violations, the Chair shall make a determination with respect to the appropriate penalty, in accordance with this policy.

Referral to the Dean
Where there have been one or more prior violations and the Chair has determined that compelling information exists to support the allegation, the Chair shall forward the case to the Dean (or the Dean’s designate. In the Faculties of Humanities, Science and Social Sciences, the designate may be the Associate Dean Academic Advising). In situations where the student is registered in more than one faculty, the case will be forwarded to the Dean responsible for the course. The Chair may submit a recommendation to the Dean with respect to a proposed penalty.

Letters of Reprimand
Any penalty will be accompanied by a letter of reprimand which will be written by the authority (Chair, Dean, President) responsible for imposing the penalty. The letter of reprimand will be sent to the student and a copy shall be included in the record maintained by the Office of the Registrar.

Rights of Appeal
Students must be given the right to be heard at each stage, and have the right to appeal decisions in accordance with university policy, procedures and regulations. A student may:
• appeal a decision made by the Chair to the Dean of the faculty in which the student is registered within 21 business days of the date of the Chair’s decision.
• appeal a decision made by the President under the provisions of section 61 of the University Act to the Senate Committee on Appeals in accordance with the Senate Committee on Appeals’ Terms of Reference and Procedural Guidelines.
Deans who receive an appeal of the decision of a Chair should attempt to make a finding with respect to the appeal within 21 business days. In the case of a successful appeal, any penalty will be rescinded.

Penalties
Penalties for First Academic Integrity Violation
In situations where a determination is made that a student has committed a first academic integrity violation, the following penalties will normally be imposed. The penalties for violations relating to graduate dissertations, theses or final projects are different than those for other violations.

Plagiarism
Single or multiple instances of inadequate attribution of sources should result in a failing grade for the work. A largely or fully plagiarized piece of work should result in a grade of F for the course.

Unauthorized Use of an Editor
Unauthorized use of an editor should result in a failing grade for the work. In situations where unauthorized use of an editor to extensively edit work results in a student submitting work that could be considered that of another person, penalties for plagiarism may apply.

Multiple Submission Without Prior Permission
If a substantial part of a piece of work submitted for one course is essentially the same as part or all of a piece of work submitted for another course, this should result in a failing grade for the assignment in one of the courses. If the same piece of work is submitted for two courses, this should result in a grade of F for one of the courses. The penalty normally will be imposed in the second (i.e., later) course in which the work was submitted.

Falsifying Materials
If a substantial part of a piece of work is based on false materials, this should result in a failing grade for the work. If an entire piece of work is based on false materials (e.g., submitting a commercially prepared essay as one’s own work), this should result in a grade of F for the course.

Cheating on Exams
Any instance of impersonation of a student during an exam should result in a grade of F for the course for the student being impersonated, and disciplinary probation for the impersonator (if he or she is a student). Isolated instances of copying the work of another student during an exam should result in a grade of zero for the exam. Systematic copying of the work of another student (or any other person with access to the exam questions) should result in a grade of F for the course. Any instance of bringing unauthorized equipment or material into an exam should result in a grade of zero for the exam. Sharing information or answers for take home assignments and tests when this is clearly prohibited in written instructions should result in a grade of zero for the assignment when such sharing covers a minor part of the work, and a grade of F for the course when such sharing covers a substantial part of the work.

Collaborative Work
In cases in which an instructor has provided clear written instructions prohibiting certain kinds of collaboration on group projects (e.g., students may share research but must write up the results individually), instances of prohibited collaboration on a substantial part of the work should result in a failing grade for the work, while instances of prohibited collaboration on the bulk of the work should result in a grade of F for the course. In situations where collaborative work is allowed, only the student or students who commit the violation are subject to penalty.