

**University of Lethbridge
Department of Economics**

**Economics 5960A
Econometric Theory and Applications**

Dr. K.C. Tran

Fall 2015

Class Time: MWF 13:00 – 13:50
Place: FA W866
Office Hrs: MW 14:30 – 16:00 or by appointment
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Prerequisites: Undergraduate Econometrics or Statistics Equivalent.

Course Objectives: This course will provide an introduction to econometric analysis at the graduate level. The main topics that will be covered in class includes: Single- and multiple-equation linear models, instrumental variable estimation, panel data models, discrete choice models as well some time series analysis. I will covering (selectively) from the text book listed below, chapter 3-17 (with the exception of 12, 14 and some in 16 that I will skip completely).

Required Text: Wooldridge, Jeff M. *Econometric Analysis of Cross Section and Panel Data*, 2nd Edition, The MIT Press, Cambridge, Massachusetts, 2010.

Recommended Readings: Wooldridge, Jeff M. *Introductory Econometrics: A Modern Approach*, 5th Edition, South-Western Cengage Learning, 2013.

Econometrics Software: The software we will be using for this course is called GRET. The program, its manual, the book's data sets in different formats, ready-made commands for practice sessions, and GRET databases are all included in the program once you have downloaded. If you are familiar with other software, you are welcome to use them.

Course Outline (tentative and subject to change):

Students are encouraged to read the course materials before attending lectures. Unless otherwise stated in class, students should read the entire chapter corresponding to the various topics outlined. The course material with chapter references is as follows:

<u>Topic</u>	<u>Readings</u>
1. Introduction and review (some of this material will be covered in class)	Chs. 1-3
2. Single-Equation Linear Models: OLS and IV Estimations	Chs. 3-6
3. Systems of Equations: OLS, GLS and IV Estimations	Chs. 7-8
4. Simultaneous Equation Models	Ch. 9
5. Panel Data Models and MLE	Chs. 10-11, 13
6. Time Series Analysis	Hand out notes
7. Nonlinear Models and Related Topics (if time permits)	Chs. 15-16

Examinations, Grade Determination and Absence Policy:

There will be one midterm and one final examination. The midterm date will be determined when the time comes and appropriate materials are fully covered. Homework assignments will be handed out or e-mail to you throughout the semester. There will be a total of 5 assignments.

Final grade will be determined by weighting grades on individual components as follows:

Assignments:	50%
Midterm:	20%
Final:	30%

If a student is absent from any examination, he/she has the option of writing a make-up exam, or having the remaining course component weights increased accordingly. Except under extremely unusual circumstances, if an exam is to be missed for any valid reason (and this happen more often than not), you must give notification before the schedule time of the exam by calling my office or e-mail. This is to be followed up with appropriate documentation (e.g., medical certificate) within 48 hours of the missed exam. Failure to do one or both will result in a failing grade on the examination.

No requests will be entertained for early or delayed exams. Requests to write final exam (without a valid reason) before or after its scheduled time will be denied.

Letter grades will be based on numerical grades as follows:

A+:	> 88.0	C+:	67.0 - 69.9
A:	84.0 - 87.9	C:	64.0 - 66.9
A-:	80.0 - 83.9	C-:	60.0 - 63.9
B+:	76.0 - 79.9	D+:	56.0 - 59.9

B: 73.0 - 75.9
B-: 70.0 - 72.9

D: 50.0 - 55.9
F: < 50.0

Students should keep all graded exams. In the case of disagreement between your recorded mark and the mark on your exam, the later will be taken as correct.

Notes: Please, note that students enrolled in this course are subject to and are expected to be familiar with all “Academic Regulations, Policies, and Program Requirements” outlined in the current University of Lethbridge Calendar. This includes all matters related to student computer literacy, academic regulations, grade appeal policy, student discipline policy for academic offences, student discipline policy for non-academic offences, registration privileges, university property, examination policy and procedures, as well as appeal of application of policy other than grade or student discipline.