

Econometrics EKT 713/714  
1st Semester 2018 Syllabus

Instructor: Matthew Clance

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Tutor: John Verner

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Tutor Venue/Hours: Tukkieurf 1-37 & ,Wed. 16:15-17:15 & Thurs. 15:15-16:15

**NOTE: This syllabus may be edited as the semester continues. You will be notified in class or on ClickUp of any changes.**

Econometrics (EKT 713/714) is a course to introduce students to basic econometrics techniques and to prepare them to do their own applied work (Honour's Research Paper). Emphasis will be placed on economic theory and statistical techniques to analyze data using STATA. We will attempt to incorporate course topics from Microeconomics (MIE 780) and Macroeconomics (MIE 781) during our practicals. Students will learn data management (including some programming) and to implement the technique presented in class. Attendance is expected but not required. However, it should be pointed out that exams will not be limited to material covered in the book or assigned as problems; familiarity with lectures will greatly reduce the study time needed to perform well in the class.

## Books

I will use *Introductory Econometrics, 5th edition* for this course. You may also use the 4th edition. If you use the 4th edition, understand that you are responsible for confirming that the correct questions from the 4th edition match any questions assigned from the 5th edition.

- Wooldridge, Jeffrey M. (2012). *Introductory Econometrics: A Modern Approach, 5e*. Mason, OH: South-Western CENGAGE Learning.
  - Boston College keeps an updated list of data sets for this book and can be found at <http://fmwww.bc.edu/ec-p/data/wooldridge/datasets.list.html>. The command *bcuse* will allow you to easily load each file.
- Angrist, J. and Pischke, J. *Mostly Harmless Econometrics: An Empiricist's Companion*. Princeton Univ Press, 2009.

You may also find this additional book useful but it is NOT required:

- Angrist, J. and Pischke, J. *Mastering Metrics: The Path from Cause to Effect*. Princeton Univ Press, 2015.
- Kennedy, Peter (2008). *A Guide to Econometrics*, Sixth Edition. Malden, MA: Blackwell Publishing.

## STATA

I expect you to use STATA for all assignments that require a statistical software to complete. STATA 12/13/14 is available on the lab computers so you do not need to purchase it. You are **STRONGLY ENCOURAGED** to become familiar with the software before attending the first practical.<sup>2</sup> Useful introductions to STATA are available at:

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<sup>1</sup>The tutor's (or anyone's) ability to answer complex questions by email is limited, so this should be used to set up appointments during office hours. Simple questions to clarify a question are welcome but this will not be used to verify your answer.

<sup>2</sup>Note: The statistical program R is also useful (and free) but it does require more knowledge of programming.

- <http://data.princeton.edu/stata>
- <http://www.ats.ucla.edu/stat/stata>
- [http://www.cpc.unc.edu/research/tools/data\\_analysis/statatutorial/index.html](http://www.cpc.unc.edu/research/tools/data_analysis/statatutorial/index.html)
- <https://www.stata.com/support/faqs/graphics/gph/stata-graphs><sup>3</sup>

## Grading and Assignment

\*\*\*\* *To write the Exam, your Semester mark must be 40% or greater.*\*\*\*\*

### Grading Scale

Grade	Percentage
Distinction	75% - 100%
Pass	50% - 74%
Fail	50% <

### Assignments

Assignment	Class 713	Class 714
	Weight of Final Grade	
Practicals	20%	10%
Extra Assignment		25%
Test	40%	30%
Exam	40%	35%

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You must submit your own/group work for any graded assignment. Any work submitted that is not your own/group will be given a *Zero*. All assignments are to be submitted in the box located in the front office by 16:00 on the due date and any late assignments will lose points. If you miss a test due to an excused absence, the weight assigned to the missed test will be moved to the Exam (no sick test).

**Rules for Practical: Orange Lab 18:00-20:30** (Note: The assignment will be posted to ClickUp at least 5 days prior to the practical)

1. Groups may consist of no more than five individuals without prior approval from me. Otherwise you will lose 10 points per additional individual.
2. You may ask two questions during the practical. Questions before the practical are permitted as long as you show me or John your work/code. Note that I will not permit you to verify all your answers with us though (ie. Think of us as a reference guide instead of an answer key).
3. One submission is required from each group. If you plagiarize another group, your group and the other group will both receive zeros.<sup>4</sup> A hard copy must be submitted by 16:00 in the front office of Tukkiewerf. (**NO EMAIL SUBMISSIONS**)

<sup>3</sup>Specific to graphs and plots

<sup>4</sup>This also applies to group work from previous years of which I keep copies.

Preliminary Schedule for Course

Dates	Description	Chapters/Assignment Due date
22/01	Decription of Course & Introduction	Ch. 1 (W), Ch. 1, 2 (AP)
05/02	<a href="#">Practical 1</a>	Due Feb. 9th (12:00)
12/02	Simple & Multiple Regression Models	Ch. 2, 3, 4 (W) & Ch. 3.1, 3.2 (AP)
19/02	<a href="#">Practical 2</a>	Due Feb. 23rd (12:00)
26/02	Inference & OLS Asymptotics	Ch. 4, 5 (W)
05/03	<a href="#">Practical 3</a>	Due March 9th (12:00)
12/03	Further Issues & Binary Indicator	Ch. 6, 7 (W)
19/03	<b>Test</b>	Venue HB(GW)4-15, Time 17:30 Coverage 1-7 (W) & 1, 2, 3.1, 3.2 (AP)
26/03	Heteroskedasticity & Specification and Data Issues	Ch. 8, 9 (W)
<a href="#">11/04</a>	<a href="#">Practical 4, Venue TBA but given the late change, Venue will most likely be cramped</a>	Due April 13th (12:00) Due April 13th (12:00)
16/04	Pooling CS & Instrumental Variables	Ch. 13, 15 (W) & Ch. 4.1, 4.2, 4.6 (AP)
23/04	<a href="#">Practical 5</a>	
<a href="#">02/05</a>	Presentations (714)	Questions will be asked on Exam about presentations
07/05	Additional Material & Exam Discussion	Coverage 8, 9, 13, 15 (W) & 4.1, 4.2, 4.6 (AP)

<sup>a</sup> Note: This schedule may be modified as the semester continues. You will be notified in class or on ClickUp.