



Econometrics II Course Descriptor

Course Title	Econometrics II	Faculty	Economics
Course Code	NCHEC541	Course Leader	Dr Ravshonbek Otojanov
Credit Points	15	Teaching Period	Hilary
FHEQ Level	Level 5	Date Approved	June 2020
Compulsory / Optional	Compulsory (Economics Major), Optional (PPE Economics Pathway)		
Pre-requisites	Statistics		
Co-requisites	Econometrics I		

COURSE SUMMARY

This course follows on from Econometrics I and broadens the knowledge and application of econometrics. It provides students with a “hands-on” environment to enable them to apply econometric methods on real-world economic data. Students are invited to assess economic theories, develop econometric models, analyse economic history and forecast macroeconomic indicators. The course exposes the students to real-world data through primary and secondary data collection, reading economic literature and reports, and critical evaluation of economic relationships and theories.

The course also incorporates the research skills component for the 2nd year of the Economics Major. It helps develop practical skills in the use of econometric software for empirical research, and introduces students to empirical research methods used by economists in academia, government departments, think tanks and financial institutions. The course material will provide necessary background to students who wish to write a final year dissertation by using quantitative methods. Besides, the course helps students prepare for the quantitative requirements of a master programme in economics.

COURSE AIMS

The course aims to:

- Foster an understanding of the application of econometric techniques on economic data for uncovering economic relationships and testing hypotheses implied by economic theories.
- Prepare students to read and critically evaluate empirical research in Economics.

- Enable students to consider critically the uses of econometrics in economic analysis, and identify situations where it is or is not an appropriate tool.

LEARNING OUTCOMES

On successful completion of the course, students should be able to:

KNOWLEDGE AND UNDERSTANDING

- K1b demonstrate a comprehensive knowledge of econometric analysis and inference
- K2b understand and empirically test underlying assumptions that justify the econometric techniques taught in the course
- K3b critically evaluate the suitability of an econometric technique to a given dataset

SUBJECT-SPECIFIC SKILLS

- S1b critically assess and carry out empirical studies in economics using an econometric software
- S2b draw balanced conclusions from his/her own econometric analysis when given data and an empirical question
- S3b provide critical and intelligent summary of the power and limitations of econometric analysis

TRANSFERABLE SKILLS

- T1b identify good-quality statistical analysis, and use this to distinguish between appropriate and inappropriate economic policy suggestions

TEACHING AND LEARNING

Students will have the opportunity to engage with:

- 1 x virtual learning environment (VLE)
- 15 x large-group hours
- 10 x seminar hours
- 0.75 x tutorial hours (individual or group tutorial)
- Weekly office hours

Students are required to attend and participate in all timetabled sessions for this course and, with the ongoing support available, to manage their directed learning and independent study.

Total study hours for this course are: 150.

EMPLOYABILITY SKILLS

- Students will develop skills necessary to collect, clean, process and communicate quantitative information to wide-variety of audience.
- Students will be able to present data and reports of a high standard and learn to make data-driven decisions.
- Students will develop skills necessary to deliver a small-scale empirical project, and the management of the project from initial conception to delivery.
- Students will be well-versed in the use of modern statistical software central to an economists' job in today's workplace.

ASSESSMENT

FORMATIVE

Students will be formatively assessed during the course by means of set assignments. These do not count towards the end of year results but will provide students with developmental feedback. For example, weekly problem sets are provided, and students present and discuss their answers in the tutorials.

SUMMATIVE

Assessment will be in one form:

AE:	Assessment Activity	Weighting (%)	Online submission	Duration	Length
1	Coursework	100%	Yes	N/A	3000 words

The coursework requires students to conduct an empirical analysis of real-world data. The coursework will be assessed in accordance with the assessment aims set out in the Programme Specification.

FEEDBACK

Students will receive formal feedback in a variety of ways: written (including via email correspondence); oral (within one-to-one tutorials or on an ad hoc basis) and indirectly through discussion during seminars. Students will also attend the formal meeting, Collections, at the end of Michaelmas and Hilary in which they will receive constructive and developmental feedback on their term's performance.

Feedback is provided on written assignments and problem sets and through generic internal examiners' reports, both of which are posted on the College's VLE.

INDICATIVE READING

Note: Comprehensive and current reading lists for courses are produced annually in Subject Handbooks or other documentation provided to students; the indicative reading list provided below is used as part of the approval/modification process only.

BOOKS

Asteriou, D. and Hall, S. (2015), *Applied Econometrics*, Third Edition, London: Palgrave Macmillan Higher Education.

Gujarati, D. (2014), *Econometrics by Example*, Basingstoke: Palgrave Macmillan.

INDICATIVE TOPICS

Students will study the following topics:

- Linear regression model: An overview
 - Model specification: functional forms
 - Regression diagnostics
 - Measurement errors and IV models
 - Limited dependent variables
 - Time series models I
 - Time series models II
 - Panel models
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Title: NCHEC541 Econometrics II Course Descriptor					
Approved by: Academic Board					
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2.0	June 2021	June 2021	Marianna Koli	1 Academic Handbook > Course Descriptors 2 VLE	April 2025
1.0	June 2020	June 2020	Marianna Koli	1 Academic Handbook > Course Descriptors 2 VLE	April 2025
Modifications (As per AQF4)					
Version number	Date approved	Date published	Modification (including category number)		
2.0	June 2021	June 2021	Category 2: Change to 'Teaching and Learning Strategy'		