

Course Descriptions None 2023-2024

Course Title Econometric Methods II
Course Code EBC2120
ECTS Credits 6,5
Assessment Whole/Half Grades

Period	Start	End	Mon	Tue	Wed	Thu	Fri
4	5-2-2024	28-3-2024			X	X	

Level Intermediate
Coordinator Martin Schumann For more information:m.schumann@maastrichtuniversity.nl
Language of instruction English

Goals
(1) Thorough understanding of standard econometric models and methods for the analysis of independent data; independent data are typically cross-sectional, as opposed to time series which are sequential and generally serially dependent.
(2) Additionally, some practical experience with the application of the methods, the interpretation of the models, and the evaluation of inferences.
(3) In particular, providing background and warming up for students about to write a Bachelor thesis on an empirical topic.

Description
Dear student, Welcome to Econometric Methods III! In this course, you will learn about popular econometric models and the accompanying theory from a micro-econometric perspective. Unlike in time-series econometrics, we will mostly consider econometrics of large cross-sections where independence of individuals is a credible assumption. Our main concern will be to tackle endogeneity due to the observational nature of most data sets. Moreover, we will learn how to incorporate nonlinearities in our models. Besides the theory, we will also discuss applied examples in class and in the tutorials. Moreover, we will use real data in Stata and simulations in R to gain deeper insight into the small sample properties of the estimators considered here. While this course covers (mostly) the classic "structural" approach to micro-econometrics, we will also introduce "quasi-experimental" methods that have gained a lot in popularity in the last two decades.

Literature
* Hansen, Bruce: Introduction to Econometrics.
* Greene, W.H.: Econometric Analysis.
* Angrist, J. & S. Pischke: Mostly Harmless Econometrics.
* Wooldridge, J.: Econometric Analysis of Cross-section and Panel Data, 2nd edition.
* Cameron, A.C. & P.K. Trivedi: Microeconometrics.

Prerequisites
Linear algebra, mathematical statistics (EBC2107), Econometric Methods I (EBC2111) or the equivalent. Familiarity with statistical software like Stata or EViews and R.

Teaching methods
Presentation / Lecture / Assignment / Papers / Groupwork
Assessment methods
Attendance / Written Exam / Assignment / Take home exam

Evaluation in previous academic year
For the complete evaluation of this course please click <http://iwio-sbe.maastrichtuniversity.nl/rapporten.asp?referrer=codeUM>

This course belongs to the following programme / specialisation
Bachelor Econometrics and Operations Research Year 3 Core Course(s)
Bachelor Econometrics and Operations Research Year 3 Elective Course(s)