Course Descriptions Bachelor 2017-2018

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

Period

Period	Start	End	Mon	Tue	Wed	Thu	Fri
4	5-2-2018	6-4-2018		X		X	

Level	Intermediate/Advanced
Coordinator	Denis de Crombrugghe For more information:d.decrombrugghe@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	In order to satisfy the Econometrics & OR curriculum, you have to choose two of the courses EBC2091, EBC2120, EBC2121, EBC2122 in period 4. "ECONOMETRIC METHODS II" IS THE NEW TITLE FOR THE COURSE PREVIOUSLY LABELLED "DYNAMIC MODELLING". The course is designed as a follow-up to the second-year course Econometric Methods 1 (EBC2111), reviewing known methods somewhat more formally before introducing the new ones. The intended main topics are (1) a quick review of linear models, (2) Instrumental Variable methods (IV), (3) Maximum Likelihood methods (MLE), (4) Generalised Methods of Moments (GMM), (5) nonlinear models for choices, counts, corner solutions etc., (6) linear models for panel data. These topics will be treated at a fairly advanced level, starting from abstract assumptions about a multivariate world described in terms of vectors and matrices.
Literature	Wooldridge J.M. (2010): Econometric Analysis of Cross-Section and Panel Data, Second Edition, MIT Press, Cambridge, MA. (First half). Davidson R. & J.G. MacKinnon (2004): Econometric Theory and Methods, Oxford University Press. Cameron A.C. & P.K. Trivedi (2005): Microeconometrics, Cambridge University Press. (First half). Greene W.H. (2008): Econometric Analysis, Sixth (or Seventh) Edition, Pearson Prentice Hall.
Prerequisites	Linear algebra, mathematical statistics (EBC2107), Econometric Methods I (EBC2111) or the equivalent. Familiarity with statistical software like Stata and Gauss, Matlab or R.
Teaching methods	PBL / Presentation / Lecture / Assignment / Groupwork
Assessment methods	Final Paper / Participation / Written 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	Econometrics & OR Electives
Bachelor Econometrics and Operations Research	Year 3 Compulsory Courses