

Course Title	Panel Data Econometrics							
Course Code	EBC4006							
ECTS Credits	6,5							
Assessment	Whole/Half Grades							
Period	Period	Start	End	Mon	Tue	Wed	Thu	Fri
	4	5-2-2024	28-3-2024	X		X		X
Level	Advanced							
Coordinator	Martin Schumann For more information:m.schumann@maastrichtuniversity.nl							
Language of instruction	English							
Goals	Thorough understanding of the most frequently used econometric models and methods for the analysis of panel data, categorical choice and limited dependent variables. Some practice in the application of the methods, the interpretation of the models, and the evaluation of inferences. The experience of conducting a theoretical, experimental and/or empirical investigation of the methods.							
Description	The main topics of the course are (1) unobserved effects models for panel data, (2) probit and logit models for discrete choice, (3) tobit and related censored regression models, (4) models dealing with sample selectivity, and (5) the estimation of average treatment effects (a.k.a. policy impact evaluation). Dynamic extensions of the models are considered when feasible. Estimation and testing methods are applied in a number of empirical assignments and their properties are investigated.							
Literature	Cameron, A.C. and P.K. Trivedi (2005): Microeconometrics, Methods and Applications, Cambridge University Press 2005. ISBN 978-0521-84805-3. Wooldridge, J.M. (2010): Econometric Analysis of Cross Section and Panel Data, Second Edition. MIT Press, Cambridge, MA, 2010, 2nd ed., ISBN 0-978-0-262-23258-6. These references will be supplemented with a reading list of journal articles and book chapters.							
Prerequisites	- Calculus, matrix algebra, probability, mathematical statistics, asymptotic theory, linear statistical models. - Familiarity with statistical software like Stata and Gauss, Matlab, or R. - Econometric methods at the level of Greene (2008) or Davidson & MacKinnon (2004), ideally as in courses Econometric Methods I (EBC2111) and Econometric Methods II (EBC2120). The course is intended for students in the Econometrics Master programme as well as others with a comparable background and motivation. FLUENCY IN MATRIX ALGEBRA AND IN ASYMPTOTIC THEORY is necessary. An advanced level of English.							
Teaching methods	Presentation / Lecture / Assignment / Papers / Groupwork / Research							
Assessment methods	Final Paper / Attendance / Assignment / Presentation							
Evaluation in previous academic year	For the complete evaluation of this course please click http://iwiio-sbe.maastrichtuniversity.nl/rapporten.asp?referrer=codeUM							
This course belongs to the following programme / specialisation	Master Business Research - No specialisation				Year 2 Free Elective(s)			
	Master Business Research - Operations Research				Elective Course(s)			
	Master Econometrics and Operations Research				Elective Course(s)			
	Master Economic and Financial Research - Econometrics				Elective Course(s)			
	Master Economic and Financial Research - Econometrics				Year 1 Core Course(s)			
	Master Economic and Financial Research - No specialisation				Elective Course(s)			
	Master Financial Economics - Asset Pricing				Elective Course(s)			
	Master Financial Economics - Banking				Elective Course(s)			
	Master Financial Economics - Financial Analysis				Elective Course(s)			
	Master Financial Economics - No specialisation				Elective Course(s)			
	SBE Exchange Master				Master Exchange Courses			
	SBE Non Degree Courses				Master Courses			