

## Course Descriptions Master 2015-2016

Course Title	Econometric Methods for Cross-sectional and Panel Data
Course Code	EBC4006
ECTS Credits	6,5
Assessment	Whole/Half Grades

Period	Period	Start	End	Mon	Tue	Wed	Thu	Fri
4		1-2-2016	1-4-2016	X		X		X

Level	Advanced																				
Coordinator	Denis de Crombrugghe For more information: <a href="mailto:d.decrombrugghe@maastrichtuniversity.nl">d.decrombrugghe@maastrichtuniversity.nl</a>																				
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 binary 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 or Matlab. - Econometric methods at the level of Greene (2008) or Davidson & MacKinnon (2004), as in course Econometric Methods (EBC2111). 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 assumed. An advanced level of English.																				
Teaching methods	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 <a href="http://iwio-sbe.maastrichtuniversity.nl/rapporten.asp?referrer=codeUM">http://iwio-sbe.maastrichtuniversity.nl/rapporten.asp?referrer=codeUM</a>																				
This course belongs to the following programme / specialisation	<table> <tr> <td>Master Business Research</td><td>Free Electives</td></tr> <tr> <td>Master Business Research Track OR</td><td>Free Electives</td></tr> <tr> <td>Master Econometrics and OR</td><td>Econometrics</td></tr> <tr> <td>Master Econometrics and OR</td><td>Econometrics &amp; OR Electives</td></tr> <tr> <td>Master Economic and Financial Research Track Econometrics</td><td>Electives</td></tr> <tr> <td>Master Economic and Financial Research Track Econometrics</td><td>Track Econometrics Core Courses</td></tr> <tr> <td>Master Economic and Financial Research</td><td>Electives</td></tr> <tr> <td>Master Financial Economics</td><td>Electives</td></tr> <tr> <td>SBE Exchange Master</td><td>Master Exchange Courses</td></tr> <tr> <td>SBE Non Degree Courses</td><td>Master Courses</td></tr> </table>	Master Business Research	Free Electives	Master Business Research Track OR	Free Electives	Master Econometrics and OR	Econometrics	Master Econometrics and OR	Econometrics & OR Electives	Master Economic and Financial Research Track Econometrics	Electives	Master Economic and Financial Research Track Econometrics	Track Econometrics Core Courses	Master Economic and Financial Research	Electives	Master Financial Economics	Electives	SBE Exchange Master	Master Exchange Courses	SBE Non Degree Courses	Master Courses
Master Business Research	Free Electives																				
Master Business Research Track OR	Free Electives																				
Master Econometrics and OR	Econometrics																				
Master Econometrics and OR	Econometrics & OR Electives																				
Master Economic and Financial Research Track Econometrics	Electives																				
Master Economic and Financial Research Track Econometrics	Track Econometrics Core Courses																				
Master Economic and Financial Research	Electives																				
Master Financial Economics	Electives																				
SBE Exchange Master	Master Exchange Courses																				
SBE Non Degree Courses	Master Courses																				