

## Course Descriptions Bachelor 2018-2019

Course Title	Econometric Methods II																
Course Code	EBC2120																
ECTS Credits	6,5																
Assessment	Whole/Half Grades																
Period	<table border="1"> <thead> <tr> <th>Period</th> <th>Start</th> <th>End</th> <th>Mon</th> <th>Tue</th> <th>Wed</th> <th>Thu</th> <th>Fri</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>4-2-2019</td> <td>5-4-2019</td> <td></td> <td>X</td> <td></td> <td>X</td> <td></td> </tr> </tbody> </table>	Period	Start	End	Mon	Tue	Wed	Thu	Fri	4	4-2-2019	5-4-2019		X		X	
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4	4-2-2019	5-4-2019		X		X											
Level	Intermediate/Advanced																
Coordinator	Denis de Crombrughe For more information:d.decrombrughe@maastrichtuniversity.nl																
Language of instruction	English																
Goals	<p>(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.</p> <p>(2) Additionally, some practical experience with the application of the methods, the interpretation of the models, and the evaluation of inferences.</p> <p>(3) In particular, providing background and warming up for students about to write a Bachelor thesis on an empirical topic.</p>																
Description	<p>The course is designed as a follow-up to the second-year course Econometric Methods I (EBC2111), reviewing known methods somewhat more formally before introducing the new ones. The following topics will be covered.</p> <p>(1) The Normal regression model and Maximum Likelihood (ML)</p> <p>(2) Endogeneity and Instrumental Variable (IV) methods</p> <p>(3) Generalised Method of Moments (GMM)</p> <p>(4) Discrete choice models (LPM, logit, probit etc.)</p> <p>(5) Censoring and selection (tobit, heckit)</p> <p>(6) Linear equation systems (SURE, SEM)</p> <p>(7) Panel data models (POLS, FE, RE, FD ...).</p> <p>These topics will be treated at a fairly rigorous level, starting from abstract assumptions about a multivariate world described in terms of vectors and matrices.</p>																
Literature	<p>Hansen, Bruce E. (2018): Econometrics, University of Wisconsin webpage  <a href="http://www.ssc.wisc.edu/~bhansen/econometrics/">http://www.ssc.wisc.edu/~bhansen/econometrics/</a></p> <p>Greene W.H. (2008): Econometric Analysis, 7th edition, Pearson Prentice Hall.</p> <p>Davidson R. &amp; J.G. MacKinnon (2004): Econometric Theory and Methods, Oxford University Press.</p> <p>Wooldridge J.M. (2010): Econometric Analysis of Cross-Section and Panel Data, 2nd edition, MIT Press, Cambridge, MA. (First half).</p> <p>Cameron A.C. &amp; P.K. Trivedi (2005): Microeconometrics, Cambridge University Press. (First half).</p>																
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	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 <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 border="1"> <tr> <td>Bachelor Econometrics and Operations Research</td> <td>Econometrics &amp; OR Electives</td> </tr> <tr> <td>Bachelor Econometrics and Operations Research</td> <td>Year 3 Compulsory Courses</td> </tr> </table>	Bachelor Econometrics and Operations Research	Econometrics & OR Electives	Bachelor Econometrics and Operations Research	Year 3 Compulsory Courses												
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