# Course Descriptions None 2021-2022

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| 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 | 31-1-2022 | 25-3-2022 | X | | X | | X |

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| 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.<br>Some practice in the application of the methods, the interpretation of the models, and the evaluation of inferences.<br>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.<br><br>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.<br><br>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.<br>- Familiarity with statistical software like Stata and Gauss, Matlab, or R.<br>- 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).<br>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.<br>An advanced level of English. |
| Teaching methods | Presentation / Lecture / Assignment / Papers / Groupwork / Research / Skills |
| Assessment methods | Final Paper / Participation / Written Exam / Presentation |
| 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

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| Master Business Research - No specialisation | Year 2 Free Elective(s) |
| Master Business Research - Operations Research | Year 1 Elective Course(s) |
| Master Business Research - Operations Research | Year 2 Elective Course(s) |
| Master Econometrics and Operations Research | E&OR Electives |
| Master Economic and Financial Research - Econometrics | Year 1 Core Course(s) |
| Master Economic and Financial Research - Econometrics | Year 1 Elective Course(s) |
| Master Economic and Financial Research - No specialisation | Year 1 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 |