

## Course Descriptions Master 2018-2019

Course Title Topics in Computational Econometrics

Course Code EBS4007

ECTS Credits 4,0

Assessment None

Period	Period	Start	End	Mon	Tue	Wed	Thu	Fri
	3	14-1-2019	25-1-2019	C				

Level Advanced

Coordinator Stephan Smeekes For more information:s.smeekes@maastrichtuniversity.nl

Language of instruction English

Goals Students will work with an advanced statistical and matrix programming language in order to solve advanced problems in econometrics.

Description The students use a statistical and matrix programming language (Gauss or R for example) software to implement computationally intensive econometric techniques. The focus will be on programming and using advanced techniques not readily available in standard statistical or optimisation packages. These techniques may for example include simulation based methods (bootstrap, Monte Carlo, indirect inference.).

Literature A selection of (survey) articles on the specific econometric techniques used and manuals on the statistical software used (all will be distributed via EleUM).

Prerequisites - Courses from periods 1 and 2 from the Master in Econometrics.  
- Restricted to econometrics students or students from the MSc. Research master programs.

Teaching methods Lecture / Assignment / Groupwork

Assessment methods Final Paper

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

Master Econometrics and Operations Research	Econometrics
Master Econometrics and Operations Research	Econometrics & OR Skill
Master Econometrics and Operations Research	Mathematical Economics
Master Economic and Financial Research - Econometrics	Skills
Master Economic and Financial Research	Skills