Course Descriptions None 2015-2016

Course Title	Data Analysis Skills
Course Code	EBS4001
ECTS Credits	4,0
Assessment	Pass / Fail

Period

Period	Start	End	Mon	Tue	Wed	Thu	Fri
3	11-1-2016	22-1-2016	-				

Level	Advanced
Coordinator	Bram Foubert For more information:b.foubert@maastrichtuniversity.nl
Language of instruction	English
Goals	Dependent variables rarely cover the full line of real numbers. Ignoring the true characteristics of your data may lead to inefficient and inconsistent estimates and may even generate nonsensical predictions. This skills training therefore introduces students to: different types of limited and/or nonmetric dependent variables and the inherent dangers of ignoring the data's real nature; models that take into account the peculiarities of the data; and a particularly popular estimation technique that is flexible enough to estimate all studied models, namely Maximum Likelihood Estimation (MLE).
Description	This skills training consists of four building blocks: i) Maximum Likelihood Estimation (the estimation technique that we will use throughout the course), ii) models for count data, iii) models for nominal and ordered data, and iv) models for censored data. Each of these four topics will be introduced in a lecture. Immediately after each lecture, students start working on an assignment that involves the estimation of one or more of the introduced models.
Literature	Selected chapters from textbooks, course slides, course book
Prerequisites	Knowledge of regression analysis and Ordinary Least Squares, Knowledge of elementary and matrix algebra and basic calculus, Experience with a statistical package like SPSS An advanced level of English
Teaching methods	PBL / Presentation / Lecture / Assignment
Assessment methods	Attendance / Participation
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 Business Research	Compulsory Skills
Master Business Research Track OR	Compulsory Skills
SBE Exchange Master	Master Exchange Skills
SBE Non Degree Courses	Master Skills