




Due to the COVID-19 crisis, the information below is subject to change, in particular that concerning the teaching mode (presential, distance or in a comodal or hybrid format).

3 credits	15.0 h + 15.0 h	Q2
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Teacher(s)	Schnor Christine ;
Language :	English
Place of the course	Louvain-la-Neuve
Main themes	<p>Database management and processing provides the foundations needed to gather, handle and analyze complex survey or census data with STATA.</p> <p>The course focuses on 7 themes:</p> <ol style="list-style-type: none"> 1. Introduction to Stata 2. Variable management (generating and modifying variables, dealing with string variables) 3. Data cleaning (dealing with missing data, duplicates, and date processing) 4. Organizing and documenting scripts 5. Data manipulation in subsets of data and across subgroups 6. Combining or reshaping datasets 7. Using loops and other tools to repeat commands over different files or segments of datasets 8. Visualizations and maps
Aims	<ol style="list-style-type: none"> 1. be enabled to prepare efficiently survey or census datasets for analysis ; ----- 2. handle survey and census data: clean the data, merge and reshape datasets, extract relevant information, apply functions over subset of the data, combine multiple datasets in one project ; ----- 3. use data visualizations (plots or maps) as tools to check the data. ----- <p><i>The contribution of this Teaching Unit to the development and command of the skills and learning outcomes of the programme(s) can be accessed at the end of this sheet, in the section entitled "Programmes/courses offering this Teaching Unit".</i></p>
Evaluation methods	<p>Due to the COVID-19 crisis, the information in this section is particularly likely to change.</p> <p>The formal mid-term and end-term assessments are based on specific survey datasets. Evaluations are weighted in the following way:</p> <ul style="list-style-type: none"> • 10% mini exam on basic knowledge in Stata during lecture time (60 mn) • 20% homework exercises • 30% two assignments (small research projects) • 40% oral exam at end of term
Teaching methods	<p>Due to the COVID-19 crisis, the information in this section is particularly likely to change.</p> <p>All lessons are a mix of a standard lecture and computer-based practical sessions based on real-life examples. The lectures provide the main concepts and tools, as well as basic knowledge required to do the exercises. Assignments are scheduled after each session to apply the procedures on datasets and verify the assimilation of concepts and tools. Corrections are offered at the beginning of each course.</p>
Content	<p>Database management and processing provides the foundations needed to gather, handle and analyze complex survey or census data with STATA.</p> <p>The course focuses on 7 themes:</p> <ol style="list-style-type: none"> 1. Introduction to Stata 2. Variable management (generating and modifying variables, dealing with string variables) 3. Data cleaning (dealing with missing data, duplicates, and date processing) 4. Organizing and documenting scripts 5. Data manipulation in subsets of data and across subgroups 6. Combining or reshaping datasets 7. Using loops and other tools to repeat commands over different files or segments of datasets

	8. Visualizations and maps
Other infos	<p>Prerequisites</p> <p>Preferably, the students should have acquired some basic knowledge on Stata (e.g. through the introductory course to STATA LDEMO2630) and have some knowledge about datasets.</p> <p>However, no statistical expertise is required since statistical methods are kept to a minimum.</p>
Faculty or entity in charge	PSAD

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Aims
Mineure en statistique et science des données	MINDATA	3		
Advanced Master in Quantitative Methods in the Social Sciences	LMQS2MC	5		
Master [120] in Sociology	SOC2M	3		
Master [120] in Population and Development Studies	SPED2M	3		