

Syllabus

Data Analysis 1b: Foundation of Data management in Stata

- **Instructor:** Gábor Békés (bekesg@ceu.edu office hours: Wednesday 17-18.30 by appointment)
- **Credits:** 2 (4 ECTS)
- **Term:** ... 2017-2018
- **Course level:** [MA/MSc]
- **Prerequisites:** -

Course description

This course presents the key methods of data management and introduces the use of the statistical software Stata.

Learning outcomes

There are two learning outcomes. First, students will be familiar to the basic use of Stata, including data manipulation, variable generation or file management. Second, they shall learn the basics of working with data, manipulating datasets, doing exploratory data analysis as well visualization.

Reading list

Data, codes and handouts will be provided.

Assessment

- Start-of-the-class Quizzes (10%)
- Assignments (40%)
- Closed book exam (50%)

Grading policy

- Students may not miss more than 2 sessions. Failing to do so will yield an automatic Fail grade.
- To pass, students will need to get at least 50% of the overall grade AND at least 50% of the exam. Failure to do so, will yield a Fail grade

Course schedule and materials for each session

1. General Introduction to Stata. The two ways of using Stata. Key commands.
2. A Systematic Introduction into Data Types
3. Exploratory data analysis: Descriptive Statistics and First Steps with Data Visualization.

4. Introduction to Non-tabular Data Types. Data Transformations. Dirty Data Problems.
5. Case Study: Case Study: Are men better than women at being CEOs?
6. Exam. Additional features in Stata