Module title			Abbreviation
Data Analysis			06-BM-DA-112-m01
Module coordinator		**Module offered by**	
holder of the Chair of Quantitative Methods in the Social Sciences			
ECTS	**Method of grading**	**Only after succ. compl. of module(s)**	
5	numerical grade	--	
Duration	**Module level**	**Other prerequisites**	
1 semester	undergraduate	--	

Contents

Introduction into the calculation of statistics using statistical software like SPSS, SAS, R, or STATA: Data management and data transformations; univariate statistics: measures of central tendency, dispersion and shape; confidence intervals; bivariate statistics: contingency tables and means of subsamples; correlation coefficients, Chi^2-test, t-test, and analysis of variance; classical test theory.

Intended learning outcomes

Participants are able to use standard statistical software packages like SPSS, SAS, R oder STATA to organize and transform data. They are able to compute common univariate and bivariate statistics and tests and to perform a classical item analysis.

Courses (type, number of weekly contact hours, language — if other than German)

This module comprises 2 module components. Information on courses will be listed separately for each module component.

- 06-BM-DA-1-112: S (no information on SWS (weekly contact hours) and course language available)
- 06-BM-DA-2-112: S (no information on SWS (weekly contact hours) and course language available)

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.

Assessment in module component 06-BM-DA-1-112: Data Analysis 1

- 3 ECTS, Method of grading: numerical grade
- a) presentation (maximum 90 minutes) and exercises or b) presentation (maximum 90 minutes) and written examination (approx. 30 minutes) or c) term paper (approx. 10 pages) and written examination (approx. 30 minutes) or d) term paper (approx. 15 pages) and exercises; in each option the 2 components being weighted 2:1
- Language of assessment: German, English

Assessment in module component 06-BM-DA-2-112: Data Analysis 2

- 2 ECTS, Method of grading: numerical grade
- a) presentation (maximum 90 minutes) and exercises, weighted 2:1 or b) presentation (maximum 90 minutes) and written examination (approx. 30 minutes), weighted 2:1 or c) term paper (approx. 10 pages) and written examination (approx. 30 minutes), weighted 2:1 or d) term paper (approx. 15 pages) and exercises, weighted 2:1; numerical grade for all assessments
- Language of assessment: German, English

Allocation of places

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Additional information

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Workload

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Teaching cycle
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Referred to in LPO I (examination regulations for teaching-degree programmes)
§ 81 (1) 2. Sozialkunde Soziologie
Module appears in
Bachelor' degree (1 major) Political and Social Studies (2011) Bachelor's degree (1 major, 1 minor) Political and Social Studies (Minor, 2011) Bachelor's degree (1 major, 1 minor) Political and Social Studies (2013) Bachelor's degree (2 majors) Political and Social Studies (2011)