Module title: Advanced module: Data Analysis 2A
Abbreviation: 06-AM-DA2A-112-m01

Module coordinator: holder of the Chair of Quantitative Methods in the Social Sciences

ECTS: 5
Method of grading: numerical grade
Duration: 1 semester
Module level: undergraduate
Other prerequisites: Not to be combined with 06-AM-DA2B.

Contents:
- Techniques of logistic regression using statistical software like SPSS, SAS, R, or STATA: deduction of hypotheses from theories in social stratification and social inequality; frequencies, probabilities, odds, odds ratios and logits; construction of hierarchical models; philosophy of maximum likelihood estimation; -2LL und Pseudo-R2 as measures of proportional reduction in error (PRE); calculation and interpretation of Wald-tests for linear effects, effects of categorial factors, nonlinear effects, and interaction effects; calculation of conditional predicted values; prerequisites of logistic regression models; oral and written discussion and presentation of logistic regression models.

Intended learning outcomes:
Participants acquire the competency to use techniques of logistic regression modelling in statistical software in order to test hypotheses deducted from scientific theories and to present findings both in oral and written form in the scientific community.

Courses:
S (no information on SWS (weekly contact hours) and course language available)

Method of assessment:
- 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 and other language where required

Allocation of places:
- Additional information:
- Referred to in LPO I (examination regulations for teaching-degree programmes):
- Module appears in:
  - Bachelor's 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)