

<b>Module title</b>		<b>Abbreviation</b>
Advanced module: Data Analysis 4A		o6-AM-DA4A-112-m01
<b>Module coordinator</b>		<b>Module offered by</b>
holder of the Chair of Quantitative Methods in the Social Sciences		
<b>ECTS</b>	<b>Method of grading</b>	<b>Only after succ. compl. of module(s)</b>
5	numerical grade	--
<b>Duration</b>	<b>Module level</b>	<b>Other prerequisites</b>
1 semester	undergraduate	Not to be combined with o6-AM-DA4B.
<b>Contents</b>		
<p>techniques of logistic regression using statistical software like SPSS, SAS, R, or STATA: deduction of hypotheses from theories in political sociology; frequencies, probabilities, odds, odds ratios and logits; construction of hierarchical models; philosophy of maximum likelihood estimation; -2LL und Pseudo-R<sup>2</sup> 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</p>		
<b>Intended learning outcomes</b>		
<p>Participants acquire the competency to use techniques of logistic regression modelling in statistical software in order to test hypotheses deduced from scientific theories and to present findings both in oral and written form in the scientific community.</p>		
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)		
S (no information on SWS (weekly contact hours) and course language available)		
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
<p>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</p>		
<b>Allocation of places</b>		
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<b>Additional information</b>		
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<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)		
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<b>Module appears in</b>		
<p>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)</p>		