

<b>Module title</b>		<b>Abbreviation</b>
Advanced module: Data Analysis 3A		o6-AM-DA3A-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-DA3B.
<b>Contents</b>		
Techniques of ordinary least squares regression using statistical software like SPSS, SAS, R, or STATA: deduction of hypotheses from theories in political sociology; construction of hierarchical models; calculation and interpretation of f-tests and increment f-tests; $R^2$ as a measure of explained variance; t-tests for linear effects, effects of categorical factors, nonlinear effects, and interaction effects; calculation of conditional predicted values; prerequisites of ols regression models; oral and written discussion and presentation of ols-regression models		
<b>Intended learning outcomes</b>		
Participants acquire the competency to use techniques of OLS 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.		
<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)		
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		
<b>Allocation of places</b>		
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<b>Additional information</b>		
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<b>Workload</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>		
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)		