Georg-August-Universität Göttingen **Module M.WIWI-BWL.0138: Research Methods**	6 C 2 WLH

Learning outcome, core skills: The seminar should prepare students to analyse empirical research data, e.g. as part of a master thesis, according to scientific standards.	**Workload:** Attendance time: 28 h Self-study time: 152 h

Course: M.WIWI-BWL.0138.Sem **Research Methods** (Seminar) *Contents*: The course will show how a causal theory can be represented by a path diagram and translated into a structural equation model and how the model can be estimated and tested with the AMOS computer program. In the first part we will deal with measurement models relating single or multiple indicators to latent variables. Furthermore, different specifications of measurement models are tested via confirmatory factor analysis as a special case of a structural equation model. Special emphasis is given to use multiple-group confirmatory factor analysis to test the equivalence of meaning in different groups and countries and illustrate the different possibilities to use the different options and estimation techniques in AMOS for this purpose. Next we will combine both the structural and the measurement models. Topics include particularly the treatment of cross-cultural data with multiple-group modeling and MIMIC models. Special attention is given to the process of model modification and the topics of mediation and moderation. The course will be application oriented rather than technically oriented. We strongly recommend participants to bring their own data with them (e.g., survey data that needs to be analyzed). Time will be dedicated for consultation on Tuesday afternoon and Thursday afternoon, and participants will have the opportunity to present their models on Friday, discuss problems they had faced and ask other participants and the teachers for possible solutions.	2 WLH
Examination: Presentation (approx. 30 minutes) M.WIWI-BWL.0138.Mp: Research Methods **Examination prerequisites:** Regular attendance	6 C

Examination requirements: To pass the course, students have to be present during the block course and give a final presentation. They have to demonstrate that they are able to systematically apply their knowledge of confirmatory factor analysis & structural equation models.	

Admission requirements: none	**Recommended previous knowledge:** Basic statistical knowledge.
Language: English	**Person responsible for module:** Prof. Dr. Peter Schmidt
Course frequency: unregular	**Duration:** 1 semester[s]

Number of repeat examinations permitted: twice	Recommended semester: 1 - 3
Maximum number of students: 20	