

Georg-August-Universität Göttingen Module M.WIWI-VWL.0180: Methods in Advanced Microeconomics		6 C 4 WLH
Learning outcome, core skills: The students: • acquire the formal methods which are required for an advanced course in microeconomic theory, • understand the logic of formal statements, • are familiar with the definitions and results in multivariable calculus, • can apply the methods to basic economic problems.		Workload: Attendance time: 56 h Self-study time: 124 h
Course: Methods in Advanced Microeconomics (Lecture) <i>Contents:</i> This course will cover the following topics on a graduate level: • Basics of set theory, topology, logic and proof techniques • Revision of one-variable calculus • Multivariable calculus • Basics of static optimization • Additional topics, e.g., fixed points and tools for comparative statics		2 WLH
Course: Methods in Advanced Microeconomics (Exercise) <i>Contents:</i> The exercises deepen the understanding of the lectures' material and apply the methods to basic economic problems.		2 WLH
Examination: Written examination (90 minutes)		6 C
Examination requirements: Students need to prove: • the understanding of basic logic and proof techniques, • the knowledge of the presented definitions and formal results in multivariate calculus, • the ability to apply the covered methods to economic problems.		
Admission requirements: none	Recommended previous knowledge: Advanced methods for economists: optimization	
Language: English	Person responsible for module: Dr. rer. pol. Stephan Müller	
Course frequency: each winter semester	Duration: 1 semester[s]	
Number of repeat examinations permitted: twice	Recommended semester: 1 - 4	
Maximum number of students: not limited		