

Name of module	Mathematics			
Responsible	M. Sc. Petra Clauß			
Qualification goals	Students will be able to, - understand the approaches of basic analysis - interpret and solve economic problems mathematically, - apply basic mathematical solution approaches to practical examples, - solve numerous exercise problems independently, - evaluate economic issues using mathematically calculated results.			
Module Content	 1 Equations and Inequalities 1.1 Algebraic equations 1.2 Solvable transcendental equations 1.3 Inequalities 			
	2 Matrics and vectors2.1 Basics2.2 Solve linear systems of equations			
	 3 Differential calculus 3.1 Rules for differentation 3.2 Curve discussion 3.3 Extreme value calculation 3.4 Applied extreme value tasks 			
Teaching methods	 Lectures Supervised exercises Self-study 			
Necessary Previous Knowledge	None			
Literature	Mavron, V. C.and Phillips T., Elements of Mathematics for Economics and Finance, Springer, 2007			
Author instructive letter	not necessary			
Utilization	This module is particularly closely related to the following modules of the same degree program: - Statistics - Microeconomic			
	This module is also useful for other business-oriented courses at Schmalkalden University of Applied Sciences.			
Student Work Load	Total workload: 150 hours, thereof: 1) synchronous teaching: 60 (classroom study) 2) asynchronous teaching: 90, thereof: - preparation for the course (especially literature study): 20 - follow-up of the course: 20 - preparation of the exercises: 25 - preparation of the exam: 25			
European Credit Transfer Points	5 ECTS-Punkte; Course: International Business and Economics: 5/180			
Method and Extent of Examination	Exam (60 Minutes (100%))			
Semester Frequency Duration Type of course	1. Semester each academic year one Semester compulsory modul			
(compulsory, choice etc.) Remarks				

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