

Module title		Abbreviation
Introduction to Higher Mathematics I		10-HCI-B-Math-I-242-m01
Module coordinator		Module offered by
Dean of Studies Mathematik (Mathematics)		Institute of Mathematics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
The lecture introduces students to higher mathematics and covers the following topics: Functions and their properties, limits and continuity of functions, differential calculus, systems of linear equations, vectors and matrices as well as functions with several variables including partial derivative and gradient		
Intended learning outcomes		
Students have a basic understanding of the listed topics in higher mathematics and are able to apply their theoretical knowledge and the methods they have learned to different contexts.		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + Ü (1) Module taught in: German and/or English		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
a) written examination (60 to 120 minutes) or b) oral examination of one candidate each or in groups of up to 2 candidates (15 to 30 minutes per candidate) or c) project work (e. g. written solutions and corresponding explanations, 10 to 15 pages total) Language of assessment: German and/or English creditable for bonus		
Allocation of places		
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Additional information		
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Workload		
150 h		
Teaching cycle		
Teaching cycle: only in winter semester		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Bachelor's degree (1 major) Human-Computer-Interaction (2024)		