

Module title		Abbreviation
Elementary Geometry for Teaching Degree (German Gymnasium)		10-M-EGEL-191-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)
10	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
Basic topics in elementary and Euclidean geometry; axiomatic approach to Euclidean geometry with discussion. Congruence geometry, transformation geometry, similarity geometry, elementary analytic geometry, geometric compass and ruler constructions, selected topics in descriptive geometry, selected topics in affine and/or projective geometry.		
Intended learning outcomes		
The student has extensive knowledge of the mathematical ways of thinking and working as well as of proof methods, so that he/she masters the basic notions of geometry. He realizes the mutual stimulation of geometric intuition and strict formal proofs. The students enhance their geometric sense of imagination, and implicitly learn about the use of new media.		
Courses (type, number of weekly contact hours, language – if other than German)		
V (4) + Ü (2)		
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 (approx. 90 to 180 minutes) or b) oral examination of one candidate each (approx. 15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus		
Allocation of places		
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Additional information		
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Workload		
300 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
§ 73 I Nr. 4		
Module appears in		
First state examination for the teaching degree Gymnasium Mathematics (2019) exchange program Mathematics (2023) First state examination for the teaching degree Gymnasium Mathematics (2023)		
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