

Module title		Abbreviation
Didactics of Mathematics: Geometry/Calculus (German Gymnasium)		10-M-D2GY-092-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)
7	numerical grade	--
Duration	Module level	Other prerequisites
2 semester	undergraduate	--
Contents		
Discussion of advanced topics in mathematics didactics for Gymnasium using the examples of geometry (Sekundarstufe I) analysis (Sekundarstufe II) as well as discussion of possibilities of implementation in the classroom, also including modern technologies.		
Intended learning outcomes		
The student is acquainted with mathematical ways of thinking and working techniques (in particular in the fields of geometry in Sekundarstufe I and analysis in sekundarstufe II) and is able to take into account the student's perception of mathematical topics, He/She knows different aspects of planning and analysing teaching of mathematics, masters different strategies for teaching and learning und can assess them.		
Courses (type, number of weekly contact hours, language — if other than German)		
This module comprises 3 module components. Information on courses will be listed separately for each module component. <ul style="list-style-type: none"> 10-M-D2GY-P-092: M (no information on SWS (weekly contact hours) and course language available) 10-M-D2GY-2-092: V + Ü (no information on SWS (weekly contact hours) and course language available) 10-M-D2GY-1-092: V + Ü (no information on SWS (weekly contact hours) and course language available) 		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.		
Assessment in module component 10-M-D2GY-P-092: Didactics of Mathematics: Exam Geometry/Calculus (German Gymnasium) <ul style="list-style-type: none"> 1 ECTS, Method of grading: numerical grade written examination (approx. 90 minutes); if announced by the lecturer, the written examination can be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups (groups of 2, approx. 40 minutes) Only after successful completion of module components: Successful completion of the module components 10-M-D2GY-1 and 10-M-D2GY-2 is a prerequisite for participation in module component 10-M-D2GY-P. 		
Assessment in module component 10-M-D2GY-2-092: Didactics of Mathematics: Calculus (German Gymnasium) Didactics of Mathematics: Calculus (German Gymnasium) <ul style="list-style-type: none"> 2 ECTS, Method of grading: (not) successfully completed exercises: At the beginning of the course, the lecturer will specify the type and scope of exercises to be successfully completed over the course of the semester for the module component to be considered successfully completed. 		
Assessment in module component 10-M-D2GY-1-092: Didactics of Mathematics: Geometry (German Gymnasium) Didactics of Mathematics: Geometry (German Gymnasium) <ul style="list-style-type: none"> 4 ECTS, Method of grading: (not) successfully completed exercises: At the beginning of the course, the lecturer will specify the type and scope of exercises to be successfully completed over the course of the semester for the module component to be considered successfully completed. 		

Allocation of places

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Additional information

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Workload

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Teaching cycle

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Referred to in LPO I (examination regulations for teaching-degree programmes)

§ 73 (1) 6. Mathematik Didaktik

Module appears in

First state examination for the teaching degree Gymnasium Mathematics (2009)