Module title			Abbreviation
Basics of Mathematics für German Grundschule 2: Geometry and Stochastics (virtual course)			10-M-VHBGuS-152-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)**	
2	(not) successfully completed	--	
Duration	**Module level**	**Other prerequisites**	
1 semester	undergraduate	--	

Contents

Fundamental topics in teaching geometry (planar figures, solids, congruence and symmetry) and application-oriented mathematics (statistics, probability and combinatorics) in Grundschule.

Intended learning outcomes

The students know the subject-related contents in geometry in elementary school, and are able to structure the notions and methods within a conceptual map. They know the subject-related contents in application-oriented mathematics related to statistics, probability and combinatorics, and are able to structure the notions and methods within a conceptual map. They know strategies for development of understanding of the central notions of geometry and application-oriented mathematics in elementary school. They are able to assess and value the importance of digital technology with respect to todays and future design of instruction. They know various fields of application of geometry and application-oriented mathematics concepts, and are able to perform modelling independently.

Courses (type, number of weekly contact hours, language — if other than German)

Ü (2)
Course type: eLearning, mostly Virtuelle Hochschule Bayern (vhb)

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

project (web-based, 15 to 20 hours)
Assessment offered: Once a year, summer semester

Allocation of places

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Additional information

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Workload

60 h

Teaching cycle

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

§ 22 II Nr. 1 h)

Module appears in

First state examination for the teaching degree Grundschule Mathematics (2015)
First state examination for the teaching degree Grundschule Didactics in Mathematics (Primary School) (2015)
First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary School) (2015)
Teaching degree Grundschule Erweiterung Mathematics (2015)
Teaching degree Sonderpädagogik Erweiterung Didactics in Mathematics (Primary School) (2015)
Teaching degree Sonderpädagogik Erweiterung Mathematics (2015)

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary School) (2020 (Prüfungsordnungsversion 2015))
Exchange Program Mathematics (2023)
Teaching degree Grundschule Erweiterung Mathematics (2015 Erweiterungsfach)
Teaching degree Sonderpädagogik Erweiterung Didactics in Mathematics (Primary School) (2015 Erweiterungsfach)