Module title	Abbreviation
Mathematics in German Hauptschule (Arithmetic and Algebra)	10-M-MH1-092-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)
10	numerical grade	--

Duration	Module level	Other prerequisites
2 semester	undergraduate	--

Contents

Discussion of basic topics in teaching arithmetics and algebra in Hauptschule taking into account didactic aspects as well as possibilities of implementation in the classroom, also including modern technologies.

Intended learning outcomes

The student is acquainted with basic mathematical ways of thinking and working techniques in the fields of arithmetic and algebra. He/She knows about criteria to assess media and their employment in teaching mathematics, detects common difficulties and typical misconceptions of pupils and knows about adequate countermeasures and support. He/She knows teaching and learning strategies and 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.

- 10-M-MH1-P-092: M (no information on SWS (weekly contact hours) and course language available)
- 10-M-MH1-1-092: V + Ü (no information on SWS (weekly contact hours) and course language available)
- 10-M-MH1-2-092: 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-MH1-P-092: Mathematics in German Hauptschule (Arithmetic and Algebra)

- 1 ECTS, Method of grading: numerical grade
- written examination (approx. 120 minutes); if announced by the lecturer, the written examination can be replaced by an oral examination of one candidate each (approx. 15 minutes) or an oral examination in groups (groups of 2: approx. 20 minutes, groups of 3: approx. 30 minutes) or by a written and/or multi-media portfolio (as announced)
- Only after successful completion of module components: Successful completion of the two module components 10-M-MH1-1 and 10-M-MH1-2 is a prerequisite for participation in module component 10-M-MH1-P.

Assessment in module component 10-M-MH1-1-092: Mathematics in German Hauptschule (Arithmetic) Mathematics in German Hauptschule (Arithmetic)

- 5 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-MH1-2-092: Mathematics in German Hauptschule (Algebra) Mathematics in German Hauptschule (Algebra)

- 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)
§ 38 (1) 1. Didaktik der Hauptschule Mathematik § 38 (1) 1. Didaktik der Mittelschule Mathematik
Module appears in
First state examination for the teaching degree Hauptschule Didactics in Mathematics (Secondary School) (2009) First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Secondary School) (2009) First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2013) First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2013)