

Module Catalogue for the Subject

Didactics in Mathematics (Middle School)

as Didaktikfach

with the degree "Erste Staatsprüfung für das Lehramt für Sonderpädagogik"

Examination regulations version: 2015 Responsible: Faculty of Mathematics and Computer Science Responsible: Institute of Mathematics



The subject is divided into	3
Abbreviations used, Conventions, Notes, In accordance with	4
Compulsory Courses	5
Mathematics in German Mittelschule - Arithmetics	6
Mathematics in German Mittelschule - Algebra	7
Mathematics in German Mittelschule - Geometry	7 8
Mathematics in German Mittelschule - Application-oriented Teaching and Stochastics	9
Freier Bereich (general as well as subject-specific electives)	11
Extra Skills Teaching Mathematics at the German Mittelschule	12
E-Learning and Blended Learning in Mathematical Teaching (virtual Course)	13
Basics in Arithmetics (virtual course)	15
Basics in School Geometry (virtual course)	17
Stochastics in Sekundarstufe I (virtual course)	19
Mathematics in grade 10 (virtual course)	21
Didactics of Geometry (virtual course)	23
Didactics of Algebra (virtual course)	25
Exam Tutorial Didactics of Mathematics (virtual course)	27
Mathematics 1 (virtual course)	29
Mathematics 2 (virtual course)	31
Computers in Mathematical Teaching	33
Didactics of Elementary School Mathematics for Teachers at German Mittelschule and Special Education	35
Methodology of Teaching in Mathematics 1 (German Mittelschule)	36
Methodology of Teaching in Mathematics 2 (German Mittelschule)	37
Advanced Didactics of Mathematics 1 (German Mittelschule)	38
Advanced Didactics of Mathematics 2 (German Mittelschule)	39
Paper	40



The subject is divided into

section / sub-section	ECTS credits	starting page
Compulsory Courses	20	5
Freier Bereich (general as well as subject-specific electives)		11
Extra Skills Teaching Mathematics at the German Mittelschule		12
Paper	10	40



Abbreviations used

Course types: $\mathbf{E} = \text{field trip}$, $\mathbf{K} = \text{colloquium}$, $\mathbf{O} = \text{conversatorium}$, $\mathbf{P} = \text{placement/lab course}$, $\mathbf{R} = \text{project}$, $\mathbf{S} = \text{seminar}$, $\mathbf{T} = \text{tutorial}$, $\ddot{\mathbf{U}} = \text{exercise}$, $\mathbf{V} = \text{lecture}$

Term: **SS** = summer semester, **WS** = winter semester

Methods of grading: **NUM** = numerical grade, **B/NB** = (not) successfully completed

Regulations: **(L)ASPO** = general academic and examination regulations (for teaching-degree programmes), **FSB** = subject-specific provisions, **SFB** = list of modules

Other: A = thesis, LV = course(s), PL = assessment(s), TN = participants, VL = prerequisite(s)

Conventions

Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not creditable for bonus.

Notes

Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the method of assessment to be used in the current semester by two weeks after the start of the course at the latest and will communicate this in the customary manner.

Should the module comprise more than one graded assessment, all assessments will be equally weighted, unless otherwise stated below.

Should the assessment comprise several individual assessments, successful completion of the module will require successful completion of all individual assessments.

In accordance with

the general regulations governing the degree subject described in this module catalogue:

LASP02015

associated official publications (FSB (subject-specific provisions)/SFB (list of modules)):

05-Oct-2015 (2015-188)

This module handbook seeks to render, as accurately as possible, the data that is of statutory relevance according to the examination regulations of the degree subject. However, only the FSB (subject-specific provisions) and SFB (list of modules) in their officially published versions shall be legally binding. In the case of doubt, the provisions on, in particular, module assessments specified in the FSB/SFB shall prevail.



Compulsory Courses

(20 ECTS credits)

Successful completion of modules worth 20 ECTS credits in each subject selected as Didaktikfach (subject studied with a focus on teaching methodology) is a prerequisite for admission to the Erste Staatsprüfung (First State Examination) in the subject Didaktiken einer Fächergruppe der Mittelschule (Didactics of a Group of Subjects of Mittelschule).



Module title					Abbreviation
Mathe	Mathematics in German Mittelschule - Arithmetics			10-M-MM1-152-m01	
Modul	Module coordinator			Module offered by	
Dean c	of Studi	es Mathematik (Mathen	natics)	Institute of Mathematics	
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)	
5	nume	rical grade			
Duratio	Duration Module level Other prerequisite		Other prerequisites		
1 semester undergraduate					

Discussion of basic topics in teaching arithmetics in Mittelschule 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. 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)

 $V(2) + \ddot{U}(2)$

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

written examination (approx. 60 to 90 minutes)

If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate).

Language of assessment: German; exceptions pursuant to Section 29 Subsection 4 LPO I (examination regulations for teaching-degree programmes)

Allocation of places

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Additional information

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Workload

150 h

Teaching cycle

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

§ 38 I Nr. 1

Module appears in

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2015)

First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2015) First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))



Module title					Abbreviation	
Mathematics in German Mittelschule - Algebra				10-M-MM2-152-m01		
Module coordinator				Module offered by		
Dean c	of Studi	es Mathematik (Math	nematics)	Institute of Mathen	Institute of Mathematics	
ECTS	Meth	od of grading	Only after succ. co	ompl. of module(s)		
5	nume	rical grade				
Duratio	Duration Module level Other prerequisites		es			
1 seme	1 semester undergraduate					

Discussion of basic topics in teaching algebra in Mittelschule 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 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)

 $V(2) + \ddot{U}(2)$

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

written examination (approx. 60 to 90 minutes)

If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate).

Language of assessment: German; exceptions pursuant to Section 29 Subsection 4 LPO I (examination regulations for teaching-degree programmes)

Allocation of places

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Additional information

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Workload

150 h

Teaching cycle

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

§ 38 I Nr. 1

Module appears in

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2015)

First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2015) First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))



Module title				Abbreviation	
Mathematics in German Mittelschule - Geometry				10-M-MM3-152-m01	
Module coordinator				Module offered by	
Dean c	Dean of Studies Mathematik (Mathematics)			Institute of Mathematics	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
5	nume	rical grade			
Duration Module level Other prer		Other prerequisites			
1 seme	ester	undergraduate			
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Discussion of basic topics in teaching geometry in Mittelschule 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 geometry. 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)

 $V(2) + \ddot{U}(2)$

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

written examination (approx. 60 to 90 minutes)

If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate).

Language of assessment: German; exceptions pursuant to Section 29 Subsection 4 LPO I (examination regulations for teaching-degree programmes)

Allocation of places

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Additional information

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Workload

150 h

Teaching cycle

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

§ 38 I Nr. 1

Module appears in

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2015)

First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2015) First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))



Modul	e title		Abbreviation			
Mathe chastic		in German Mittelschule	d Teaching and Sto-	10-M-MM4-152-m01		
	e coord	inator	Module offered by			
Dean c	of Studi	es Mathematik (Mathem	atics)	Institute of Mathematics		
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	Duration Module level Other prerequisites					
1 seme	1 semester undergraduate					
Conter	Contents					

Discussion of basic topics in teaching stochastics and application-oriented mathematics in Mittelschule 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 application-oriented mathematics and stochastics. 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.

 $\pmb{\textbf{Courses}} \ (\textbf{type, number of weekly contact hours, language} - \textbf{if other than German})$

V (2) + Ü (2)

 $\textbf{Method of assessment} \ (\textbf{type}, \textbf{scope}, \textbf{language} - \textbf{if other than German, examination of fered} - \textbf{if not every semester, information on whether} \ \\$ module is creditable for bonus)

written examination (approx. 60 to 90 minutes)

If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate).

Language of assessment: German; exceptions pursuant to Section 29 Subsection 4 LPO I (examination regulations for teaching-degree programmes)

Allocation of places

Additional information

Workload

150 h

Teaching cycle

$\textbf{Referred to in LPO I} \ \ (\text{examination regulations for teaching-degree programmes})$

§ 38 I Nr. 1

Module appears in

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School)

First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2015) First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))





Freier Bereich (general as well as subject-specific electives)

(ECTS credits)

Teaching degree students must take modules worth a total of 15 ECTS credits in the area Freier Bereich (general as well as subject-specific electives) (Section 9 LASPO (general academic and examination regulations for teaching-degree programmes)). To achieve the required number of ECTS credits, students may take any modules from the areas below.

Freier Bereich -- interdisciplinary: The interdisciplinary additional offer for a teaching degree can be found in the respective Annex "Ergänzende Bestimmungen für den "Freien Bereich" im Rahmen des Studiums für ein Lehramt".



Extra Skills Teaching Mathematics at the German Mittelschule

(ECTS credits)

(Freier Bereich (general as well as subject-specific electives) -- subject specific)



Modul	e title	,	Abbreviation		
E-Lear	E-Learning and Blended Learning in Mathematical Teaching (virtual Course)			10-M-DVHB-152-m01	
Modul	Module coordinator Module offered by			Module offered by	
Dean c	Dean of Studies Mathematik (Mathematics)			Institute of Mathematics	
ECTS	Metho	od of grading	Only after succ. com	mpl. of module(s)	
3	(not)	successfully completed			
Duration Module level Other		Other prerequisites			
1 seme	1 semester undergraduate				

In a course offered by Virtuelle Hochschule Bayern (vhb), the student becomes acquainted with and reflects on techniques in e-learning and blended learning for teaching mathematics.

Intended learning outcomes

The student is acquainted with basic methods of e-learning and blended learning in teaching methematics, as well as their potentials and limitations.

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, winter semester

Allocation of places

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Additional information

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Workload

90 h

Teaching cycle

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$\textbf{Referred to in LPO I} \ \ (\text{examination regulations for teaching-degree programmes})$

§ 22 II Nr. 1 h)

§ 22 II Nr. 2 f)

§ 22 II Nr. 3 f)

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 Realschule Mathematics (2015)

First state examination for the teaching degree Gymnasium Mathematics (2015)

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

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2015)

First state examination for the teaching degree Mittelschule Mathematics (2015)

First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2015)



First state examination for the teaching degree Mittelschule Mathematics (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary School) (2020 (Prüfungsordnungsversion 2015))



Module title					Abbreviation
Basics	Basics in Arithmetics (virtual course)				10-M-VHBAri-152-m01
Module coordinator				Module offered by	
Dean c	of Studi	es Mathematik (Mathem	atics)	Institute of Mathematics	
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)	
2	(not)	successfully completed			
Duratio	Duration Module level Oth		Other prerequisites		
1 seme	1 semester undergraduate				

Basic topics on teaching arithmetics in school, e. g. divisability theory, prime numbers, set theory.

Intended learning outcomes

The student learns basic topics in the teaching of arithmetics and the related mathematical backgrounds and proofs. He/She is acquainted with the employment of new technologies for teaching arithmetic in school.

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, winter 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)

§ 22 II Nr. 2 f)

§ 22 II Nr. 3 f)

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 Realschule Mathematics (2015)

First state examination for the teaching degree Gymnasium Mathematics (2015)

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

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2015)

First state examination for the teaching degree Mittelschule Mathematics (2015)

First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2015)

First state examination for the teaching degree Gymnasium Mathematics (2019)

First state examination for the teaching degree Mittelschule Mathematics (2020 (Prüfungsordnungsversion 2015))



First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary School) (2020 (Prüfungsordnungsversion 2015))

exchange program Mathematics (2023)



Module title					Abbreviation
Basics	Basics in School Geometry (virtual course)				10-M-VHBGe0-152-m01
Module coordinator				Module offered by	
Dean c	of Studi	es Mathematik (Mathem	atics)	Institute of Mathematics	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
2	(not)	successfully completed			
Duratio	Duration Module level Oth		Other prerequisites		
1 seme	1 semester undergraduate				

Revision and consolidation of the fundamental topics in elementary geometry that are prerequisites for the subject-specific and didactic courses (in particular teaching degrees Grundschule, Hauptschule, Realschule) in geometry.

Intended learning outcomes

The student has basic knowledge of school geometry, as required for the study of mathematics and its didactics. He/She is acquainted with the employment of new technologies for teaching geometry in school.

 $\textbf{Courses} \ (\textbf{type}, \, \textbf{number of weekly contact hours}, \, \textbf{language} - \textbf{if other than German})$

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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$\textbf{Referred to in LPO I} \ \ (\text{examination regulations for teaching-degree programmes})$

§ 22 II Nr. 1 h)

§ 22 | Nr. 2 f)

§ 22 II Nr. 3 f)

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 Realschule Mathematics (2015)

First state examination for the teaching degree Gymnasium Mathematics (2015)

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

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2015)

First state examination for the teaching degree Mittelschule Mathematics (2015)

First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2015)



First state examination for the teaching degree Mittelschule Mathematics (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary School) (2020 (Prüfungsordnungsversion 2015))

exchange program Mathematics (2023)



Module title				Abbreviation	
Stochastics in Sekundarstufe I (virtual course)			course)		10-M-VHBSto-152-m01
Module coordinator				Module offered by	
Dean c	f Studi	es Mathematik (Mathema	atics)	Institute of Mathematics	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
2	(not)	successfully completed			
Duration Module level Other prerequisit		Other prerequisites			
1 seme	ester	undergraduate			

Revision and consolidation of the fundamental topics in stochastics that are prerequisites for the subject-specific and didactic courses in stochastics.

Intended learning outcomes

The student has basic knowledge of stochastics, as required for the study of mathematics and its didactics. He/She is acquainted with the employment of new technologies for teaching stochastics in school.

 $\textbf{Courses} \ (\text{type, number of weekly contact hours, language} - \text{if other than German})$

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, winter semester

Allocation of places

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Additional information

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Workload

60 h

Teaching cycle

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$\textbf{Referred to in LPO I} \ \ (\text{examination regulations for teaching-degree programmes})$

§ 22 II Nr. 1 h)

§ 22 II Nr. 2 f)

§ 22 II Nr. 3 f)

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 Realschule Mathematics (2015)

First state examination for the teaching degree Gymnasium Mathematics (2015)

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

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2015)

First state examination for the teaching degree Mittelschule Mathematics (2015)

First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2015)



First state examination for the teaching degree Mittelschule Mathematics (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary School) (2020 (Prüfungsordnungsversion 2015))

exchange program Mathematics (2023)



Module title					Abbreviation
Mathematics in grade 10 (virtual course)				10-M-VHBM10-152-m01	
Module coordinator				Module offered by	
Dean c	of Studi	es Mathematik (Mathem	atics)	Institute of Mathematics	
ECTS	Meth	od of grading	Only after succ. con	ompl. of module(s)	
2	(not)	successfully completed			
Duration Module level Other p		Other prerequisites			
1 seme	1 semester undergraduate				

Basic topics on teaching mathematics in tenth grade in Hauptschule, Realschule and Gymnasium.

Intended learning outcomes

The student learns basic topics in the teaching of mathematics in tenth form at German Mittelschule and Real-schule, as well as the related mathematical backgrounds and proofs. He/She is acquainted with the employment of new technologies for teaching mathematics in tenth form.

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)

§ 22 II Nr. 2 f)

§ 22 II Nr. 3 f)

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 Realschule Mathematics (2015)

First state examination for the teaching degree Gymnasium Mathematics (2015)

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

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2015)

First state examination for the teaching degree Mittelschule Mathematics (2015)

First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2015)



First state examination for the teaching degree Mittelschule Mathematics (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary School) (2020 (Prüfungsordnungsversion 2015))

exchange program Mathematics (2023)



Module title				Abbreviation	
Didactics of Geometry (virtual course)					10-M-VHBDG-152-m01
Module coordinator				Module offered by	
Dean c	of Studi	es Mathematik (Mathema	atics)	Institute of Mathematics	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
2	(not)	successfully completed			
Duration Module level O		Other prerequisites			
1 seme	1 semester undergraduate				
<i>c</i> .	Combando				

Geometry didactics is about learning and teaching geometry. This course focuses on topics which are central and important for all of geometry and mathematics, namely proving and problem solving. It also addresses topics which are usually discussed only briefly or not at all in university lectures and in the literature. Among these are chapters on space geometry, trigonometry and similarity geometry.

Intended learning outcomes

The students are acquainted with the subject-specific contents of school geometry, and are able to structure the notions and methods within a conceptual map. They know strategies of short, middle and long term development of understanding of the central concepts of geometry in teaching mathematics. They are able to develop and justify learning units and learning sequences for the important topics in school geometry independently. 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 geometric concepts, and are able to perform modelling (in the sense of modelling cycles) 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)

§ 22 | Nr. 2 f)

§ 22 II Nr. 3 f)

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 Realschule Mathematics (2015)

First state examination for the teaching degree Gymnasium Mathematics (2015)

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



First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2015)

First state examination for the teaching degree Mittelschule Mathematics (2015)

First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2015) First state examination for the teaching degree Mittelschule Mathematics (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary School) (2020 (Prüfungsordnungsversion 2015))



Module title					Abbreviation	
Didactics of Algebra (virtual course)					10-M-VHBDA-152-m01	
Module coordinator				Module offered by		
Dean o	f Studi	es Mathematik (Mathema	atics)	Institute of Mathematics		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
2	(not)	successfully completed				
Duration Module level		Other prerequisites				
1 seme	ster	undergraduate				
Cantan	Contonts					

Algebra didactics is about learning and teaching algebra. This course focuses on the central and important topics in school algebra: extensions of number domains, variables and terms, equations and functions.

Intended learning outcomes

The students are acquainted with the subject-specific contents of school algebra, and are able to structure the notions and methods within a conceptual map. They know strategies of short, middle and long term development of understanding of the central concepts of algebra in teaching mathematics. They are able to develop and justify learning units and learning sequences for the important topics in school algebra independently. 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 algebraic concepts, and are able to perform modelling (in the sense of modelling cycles) 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, winter 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 | Nr. 1 h), § 22 | Nr. 2 f)

§ 22 II Nr. 3 f)

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 Realschule Mathematics (2015)

First state examination for the teaching degree Gymnasium Mathematics (2015)

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

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2015)

First state examination for the teaching degree Mittelschule Mathematics (2015)



First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2015) First state examination for the teaching degree Mittelschule Mathematics (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary School) (2020 (Prüfungsordnungsversion 2015))



Module title					Abbreviation
Exam Tutorial Didactics of Mathematics (virtual course)					10-M-VHBEx-152-m01
Module coordinator				Module offered by	
Dean o	f Studi	es Mathematik (Mathema	atics)	Institute of Mathematics	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
2	(not)	successfully completed			
Duration Module level Other		Other prerequisites			
1 semester undergraduate					
Contents					

Revision of basics (definitions of mathematical notions, formulation and proving of theorems) in preparation for the Erstes Staatsexamen für Lehramt Gymnasium (first state examination for teaching at a Gymnasium) as well as basic guidelines for answering exam questions (with a special focus on the state examination in Bavaria).

Intended learning outcomes

The student learns about the structure of the state exams and different methods for solving the exam problems.

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, winter 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)

§ 22 II Nr. 2 f)

§ 22 II Nr. 3 f)

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 Realschule Mathematics (2015)

First state examination for the teaching degree Gymnasium Mathematics (2015)

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

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2015)

First state examination for the teaching degree Mittelschule Mathematics (2015)

First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2015) First state examination for the teaching degree Mittelschule Mathematics (2020 (Prüfungsordnungsversion 2015))



First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary School) (2020 (Prüfungsordnungsversion 2015))



Module title					Abbreviation	
Mathematics 1 (virtual course)					10-M-VHBMa1-152-m01	
Module coordinator				Module offered by		
Dean c	of Studi	es Mathematik (Mathema	atics)	Institute of Mathematics		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
2	(not)	successfully completed				
Duration Module level		Other prerequisites				
1 seme	1 semester undergraduate					
Contor	Contonts					

Discussion of basic topics on teaching mathematics in a Gymnasium, in particular verbal and subject-specific fundamentals concerning the organisation of classes.

Intended learning outcomes

The student is able to discuss selected topics and questions on teaching mathematics at German Gymnasium, considering both subject-related and methodical aspects.

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: Every two years, winter semester

Allocation of places

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Additional information

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Workload

60 h

Teaching cycle

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$\textbf{Referred to in LPO I} \ \ (\text{examination regulations for teaching-degree programmes})$

§ 22 II Nr. 1 h)

§ 22 II Nr. 2 f)

§ 22 II Nr. 3 f)

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 Realschule Mathematics (2015)

First state examination for the teaching degree Gymnasium Mathematics (2015)

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

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2015)

First state examination for the teaching degree Mittelschule Mathematics (2015)

First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2015)



First state examination for the teaching degree Mittelschule Mathematics (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary School) (2020 (Prüfungsordnungsversion 2015))

exchange program Mathematics (2023)



Module title					Abbreviation	
Mathematics 2 (virtual course)					10-M-VHBMa2-152-m01	
Module coordinator				Module offered by		
Dean o	Dean of Studies Mathematik (Mathematics)			Institute of Mathematics		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
2	(not)	successfully completed				
Duration Module level		Other prerequisites				
1 semester undergraduate						
Conten	Contents					

Discussion of central topics on teaching mathematics in a Gymnasium, in particular didactic analyses and possibilities of implementation in the classroom.

Intended learning outcomes

The student is able to discuss and analyse selected topics and questions on teaching mathematics at German Gymnasium from a didactical point of view.

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

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: Every two years, summer semester

Allocation of places

Additional information

Workload

60 h

Teaching cycle

$\textbf{Referred to in LPO I} \ \ (\text{examination regulations for teaching-degree programmes})$

§ 22 II Nr. 1 h)

§ 22 II Nr. 2 f)

§ 22 II Nr. 3 f)

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 Realschule Mathematics (2015)

First state examination for the teaching degree Gymnasium Mathematics (2015)

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

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2015)

First state examination for the teaching degree Mittelschule Mathematics (2015)

First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2015)



First state examination for the teaching degree Mittelschule Mathematics (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary School) (2020 (Prüfungsordnungsversion 2015))

exchange program Mathematics (2023)



Module title					Abbreviation	
Computers in Mathematical Teaching					10-M-DCMU-152-m01	
Module	Module coordinator			Module offered by		
Dean o	Dean of Studies Mathematik (Mathematics)			Institute of Mathematics		
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)		
3	(not)	successfully completed				
Duratio	Duration Module level		Other prerequisites			
1 seme	1 semester undergraduate					
Conten	Contents					

Discussion of possible ways to use computers in teaching mathematics as well as discussion of common computer tools.

Intended learning outcomes

The student is acquainted with basic possibilities for the employment of computers in the teaching of mathematics, as well as with the potential and limitations of computer tools.

 $\textbf{Courses} \ (\text{type, number of weekly contact hours, language} - \text{if other than German})$

V (2)

 $\textbf{Method of assessment} \ (\textbf{type}, \textbf{scope}, \textbf{language} - \textbf{if other than German, examination offered} - \textbf{if not every semester, information on whether} \ (\textbf{type}, \textbf{scope}, \textbf{language} - \textbf{if other than German, examination offered} - \textbf{if not every semester, information on whether} \ (\textbf{type}, \textbf{scope}, \textbf{language}) \ (\textbf{type}, \textbf{language}) \$ module is creditable for bonus)

project (10 to 15 pages)

Assessment offered: Every two years, winter semester

Allocation of places

Additional information

Workload

90 h

Teaching cycle

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

§ 22 II Nr. 2 f)

§ 22 II Nr. 1 h)

§ 22 II Nr. 3 f)

Module appears in

First state examination for the teaching degree Realschule Mathematics (2015)

First state examination for the teaching degree Gymnasium Mathematics (2015)

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2015)

First state examination for the teaching degree Mittelschule Mathematics (2015)

First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2015)

First state examination for the teaching degree Gymnasium Mathematics (2019)

First state examination for the teaching degree Mittelschule Mathematics (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))



exchange program Mathematics (2023)



Module	e title		Abbreviation				
Didactics of Elementary School Mathematics for Teachers at German Mittel- schule and Special Education					10-M-DGMS-152-m01		
Module coordinator Mod				Module offered by			
Dean o	of Studi	es Mathematik (Mathema	atics)	Institute of Mathematics			
ECTS	Meth	od of grading	Only after succ. compl. of module(s)				
2	(not)	successfully completed					
Duration Module level		Other prerequisites					
1 semester undergraduate							
Conten	Contents						

Discussion of selected methods for teaching mathematics in Mittelschule.

Intended learning outcomes

The student is acquainted with different methods of teaching mathematics at German Mittelschule, can assess their respective advantages and disadvantages, and can select and employ an appropriate method depending on the situation and the subject.

 $\textbf{Courses} \ (\textbf{type, number of weekly contact hours, language} - \textbf{if other than German})$

S (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) talk (approx. 45 minutes) or
- b) term paper (5 to 10 pages) or
- c) project (10 to 15 pages)

Assessment offered: Every two years, winter 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 || Nr. 2 f § 22 || Nr. 1 h

Module appears in

First state examination for the teaching degree Realschule Mathematics (2015)

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2015)

First state examination for the teaching degree Mittelschule Mathematics (2015)

First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2015) First state examination for the teaching degree Mittelschule Mathematics (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))



Module title					Abbreviation
Methodology of Teaching in Mathematics 1 (German Mittelschule)				schule)	10-M-DMMS1-152-m01
Modul	e coord	inator		Module offered by	
Dean c	Dean of Studies Mathematik (Mathematics)			Institute of Mathematics	
ECTS	Metho	od of grading	Only after succ. con	mpl. of module(s)	
3	(not)	successfully completed			
Duratio	Duration Module level		Other prerequisites		
1 semester undergraduate					

Discussion of selected methods for teaching mathematics in Mittelschule.

Intended learning outcomes

The student is acquainted with different methods of teaching mathematics at German Mittelschule, can assess their respective advantages and disadvantages, and can select and employ an appropriate method depending on the situation and the subject.

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

S (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) talk (approx. 45 minutes) or
- b) term paper (5 to 10 pages) or
- c) project (10 to 15 pages)

Assessment offered: Every two years, winter semester

Allocation of places

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Additional information

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Workload

90 h

Teaching cycle

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$\textbf{Referred to in LPO I} \ \ (\text{examination regulations for teaching-degree programmes})$

§ 22 II Nr. 1 h)

Module appears in

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2015)

First state examination for the teaching degree Mittelschule Mathematics (2015)

First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2015) First state examination for the teaching degree Mittelschule Mathematics (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))



Modul	e title		Abbreviation			
Methodology of Teaching in Mathematics 2 (German Mittelschule)					10-M-DMMS2-152-m01	
Modul	e coord	inator		Module offered by		
Dean c	of Studi	es Mathematik (Mathem	atics)	Institute of Mathematics		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
3	(not)	successfully completed				
Duration Module level			Other prerequisites			
1 semester undergraduate						

Discussion of selected methods for teaching mathematics in Mittelschule.

Intended learning outcomes

The student is acquainted with different methods of teaching mathematics at German Mittelschule, can assess their respective advantages and disadvantages, and can select and employ an appropriate method depending on the situation and the subject.

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

S (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) talk (approx. 45 minutes) or
- b) term paper (5 to 10 pages) or
- c) project (10 to 15 pages)

Assessment offered: Every two years, summer semester

Allocation of places

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Additional information

Workload

90 h

Teaching cycle

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$\textbf{Referred to in LPO I} \ \ (\text{examination regulations for teaching-degree programmes})$

§ 22 II Nr. 1 h)

Module appears in

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2015)

First state examination for the teaching degree Mittelschule Mathematics (2015)

First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2015) First state examination for the teaching degree Mittelschule Mathematics (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))



Module title					Abbreviation	
Advanced Didactics of Mathematics 1 (German Mittelschule)				e)	10-M-DVMS1-152-m01	
Modul	e coord	inator		Module offered by		
Dean o	Dean of Studies Mathematik (Mathematics)			Institute of Mathematics		
ECTS	Metho	od of grading	Only after succ. con	ompl. of module(s)		
2	(not)	successfully completed				
Duration Module level		Other prerequisites				
1 semester undergraduate						

Discussion of topics in teaching mathematics in Mittelschule taking into account different aspects, in particular mathematical foundations, didactic analyses, contemporary discussions in mathematics didactics as well as possible approaches in the classroom.

Intended learning outcomes

The student is able to discuss central topics and issues on teaching mathematics in German Mittelschule, considering subject-specific, didactical and methodical aspects.

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

S (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) talk (approx. 45 minutes) or
- b) term paper (5 to 10 pages) or
- c) project (10 to 15 pages)

Assessment offered: Every two years, winter semester

Allocation of places

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Additional information

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Workload

60 h

Teaching cycle

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$\textbf{Referred to in LPO I} \ \ (\text{examination regulations for teaching-degree programmes})$

§ 22 II Nr. 1 h)

Module appears in

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2015)

First state examination for the teaching degree Mittelschule Mathematics (2015)

First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2015) First state examination for the teaching degree Mittelschule Mathematics (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))



Module title					Abbreviation	
Advanced Didactics of Mathematics 2 (German Mittelschule)				e)	10-M-DVMS2-152-m01	
Modul	Module coordinator			Module offered by		
Dean c	Dean of Studies Mathematik (Mathematics)			Institute of Mathematics		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
2	(not)	successfully completed				
Duration Module level		Other prerequisites				
1 semester undergraduate						

Discussion of topics in teaching mathematics in Mittelschule taking into account different aspects, in particular mathematical foundations, didactic analyses, contemporary discussions in mathematics didactics as well as possible approaches in the classroom.

Intended learning outcomes

The student is able to discuss central topics and issues on teaching mathematics in German Mittelschule, considering subject-specific, didactical and methodical aspects.

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

S (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) talk (approx. 45 minutes) or
- b) term paper (5 to 10 pages) or
- c) project (10 to 15 pages)

Assessment offered: Every two years, summer semester

Allocation of places

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Additional information

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Workload

60 h

Teaching cycle

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$\textbf{Referred to in LPO I} \ \ (\text{examination regulations for teaching-degree programmes})$

§ 22 II Nr. 1 h)

Module appears in

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2015)

First state examination for the teaching degree Mittelschule Mathematics (2015)

First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2015) First state examination for the teaching degree Mittelschule Mathematics (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Mittelschule Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Middle School) (2020 (Prüfungsordnungsversion 2015))



Paper

(10 ECTS credits)

Preparation of a written Hausarbeit (thesis) in accordance with the provisions of Section 29 LPO I (examination regulations for teaching-degree programmes) is a prerequisite for teaching degree students to be admitted to the Erste Staatsprüfung (First State Examination). In accordance with the provisions of Section 29 LPO I, students studying for a teaching degree Mittelschule may write this thesis in the subject Didaktik einer Fächergruppe der Mittelschule (Didactics of a Group of Subjects of Mittelschule), in the subject they selected as Unterrichtsfach (subject studied with a focus on the scientific discipline) or in the subject Erziehungswissenschaften (Educational Science). Pursuant to Section 29 Subsection 1 Sentence 2 LPO I, students may also choose to write an interdisciplinary thesis.