

Subdivided 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: 2013 Responsible: Institute of Mathematics

JMU Würzburg • generated 26-Aug-2024 • exam. reg. data record L6|871|-|-|H|2013

Abbreviations used

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

LASPO2009

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

25-Sep-2014 (2014-53)

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.

The subject is divided into

Abbreviation	viation Module title		Method of grading	page				
Compulsory Courses (20 ECTS credits)								
Successful completion of modules worth 20 ECTS credits in each subject selected as Didaktikfach (subject studied with a fo- cus on teaching methodology) is a prerequisite for admission to the Erste Staatsprüfung (First State Examination) in the sub- ject Didaktiken einer Fächergruppe der Mittelschule (Didactics of a Group of Subjects of Mittelschule).								
10-M-MH1-092-m01	M-MH1-092-mo1 Mathematics in German Hauptschule (Arithmetic and Algebra) 10 NUM							
	Mathematics in German Hauptschule (Geometry, use-oriented	10	NUIM	44				
10-10-101	teaching and Stochastics)	10	NUM	11				
Teaching degree students mu ject-specific electives) (Sectic To achieve the required numb Freier Bereich interdisciplin nex "Ergänzende Bestimmung	Teaching degree students must take modules worth a total of 15 ECTS credits in the area Freier Bereich (general as well as sub- ject-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 An- nex "Freänzende Bestimmungen für den "Freien Bereich" im Rahmen des Studiums für ein Lehramt"							
10-M-DCMU-092-m01	Computers in Mathematical Teaching	3	B/NB	4				
10-M-DMHS-092-m01	Methodology of Teaching in Mathematics (German Hauptschu- le)	3	B/NB	5				
10-M-DVHS-092-m01	Advanced Didactics of Mathematics (German Hauptschule)	2	B/NB	8				
10-M-DVHB-092-m01	E-Learning and Blended Learning in Mathematics at school	3	B/NB	6				
10-M-VHBAri-092-m01	Basics in Arithmetics (virtual course)	3	B/NB	13				
10-M-VHBGeo-092-m01	o-M-VHBGeo-092-mo1 Basics in School Geometry (virtual course)		B/NB	15				
10-M-VHBSto-092-m01	Stochastics in Sekundarstufe I (virtual course)	3	B/NB	19				
10-M-VHBM10-092-m01	Mathematics in Class 10 (virtual course)	3	B/NB	17				

Thesis (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.

Module	title				Abbreviation
Comput	ters in	Mathematical Teaching			10-M-DCMU-092-m01
Module	coord	inator		Module offered by	
Dean of	Studie	es Mathematik (Mathema	atics)	Institute of Mathem	atics
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
3	(not) s	uccessfully completed			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	undergraduate			
Conten	ts				
Discuss puter to	ion of ools.	possible ways to use con	nputers in teaching m	athematics as well a	as discussion of common com-
Intende	d learr	ning outcomes			
The stu tics, as	dent is well as	acquainted with basic positions with the potential and li	ossibilities for the em mitations of compute	ployment of computer tools.	ters in the teaching of mathema-
Courses	s (type,	number of weekly conta	ct hours, language —	if other than Germa	n)
V (no in	format	ion on SWS (weekly cont	act hours) and course	e language available)
Method ster, inf	l of ass ormati	essment (type, scope, la on on whether module ca	nguage — if other tha an be chosen to earn	n German, examina a bonus)	tion offered — if not every seme-
project Assessi	(type a ment o	nd expenditure of time to ffered: every two years, s	be specified by the ummer semester	lecturer at the begin	ning of the course)
Allocati	ion of p	olaces			
Additio	nal info	ormation			
Worklo	ad				
Teachir	ig cycle	9			
	<u> </u>				
Referre	d to in	LPO I (examination regu	lations for teaching-d	legree programmes)	
Module	appea	rs in			
First sta First sta First sta First sta First sta (2009) First sta (2013)	ite exal ite exal ite exal ite exal ite exal ite exal ite exal	mination for the teaching mination for the teaching	degree Hauptschule degree Hauptschule degree Realschule N degree Gymnasium I degree Gymnasium I degree Sonderpädag degree Sonderpädag	Mathematics (2009 Didactics in Mathem Mathematics (2009) Mathematics (2012) Mathematics (2009) gogik Didactics in Ma gogik Didactics in Ma) natics (Secondary School) (2009) athematics (Secondary School) athematics (Middle School)
First sta First sta	ite exa ite exa	mination for the teaching mination for the teaching	aegree Mittelschule degree Mittelschule	Mathematics (2013) Didactics in Mathem	natics (Middle School) (2013)

Module	titla				Abbreviation	
Method	Methodology of Teaching in Mathematics (German Haunts			hule)		
Methot	101059	or reaching in Mathemat		.nute)	10-M-DMHS-092-m01	
Module	e coord	inator		Module offered by		
Dean of	f Studie	es Mathematik (Mathema	atics)	Institute of Mathem	natics	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
3	(not) s	successfully completed				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	undergraduate				
Conten	ts					
Discuss	sion of	selected methods for tea	ching mathematics i	n Hauptschule.		
Intende	ed learı	ning outcomes				
The stu	dent is	acquainted with differen	t methods of teachin	g mathematics at G	erman Hauptschule, can assess	
their re	spectiv	e advantages and disadv	antages, and can se	lect and employ an a	appropiate method depending on	
the situ	ation a	and the subject.				
Course	s (type	, number of weekly conta	ct hours, language —	if other than Germa	in)	
S (no ir	format	ion on SWS (weekly cont	act hours) and cours	e language available	e)	
Method	d of ass	essment (type, scope, la	nguage — if other tha	an German, examina	tion offered — if not every seme-	
ster, in	formati	on on whether module ca	an be chosen to earn	a bonus)		
a) talk	(appro>	<. 45 minutes) or b) proje	ct (approx. 5 to 15 pa	ges) or c) portfolio (a	approx. 5 to 15 pages)	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
Toachir		•				
Teacini	ig cycl	5				
Deferre		IDOL (avamination rage	lations for tooching a			
Referre		LPUT (examination regu	lations for teaching-c	legree programmes)		
		•				
Module	e appea	irs in			<u></u>	
First sta	ate exa	mination for the teaching	degree Hauptschule	Mathematics (2009))	
First state examination for the teaching degree Hauptschule Didactics in Mathematics (Secondary School) (2009)						
(2000)	ate exa	mination for the teaching	, uegree Sonderpada	gogik didactics in M	amematics (Secondary School)	
First sta	ate exa	mination for the teaching	degree Sonderpäda	gogik Didactics in M	athematics (Middle School)	
(2013)						
First sta	ate exa	First state examination for the teaching degree Mittelschule Mathematics (2013)				

Module title					Abbreviation
E-Learr	ning an	d Blended Learning in Ma	10-M-DVHB-092-m01		
Module coordinator				Module offered by	
Dean o	f Studi	es Mathematik (Mathema	atics)	Institute of Mathem	atics
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
3	(not) s	successfully completed			
Duration Module level Other prerequisites					
1 seme	ster	undergraduate	Certain prerequisite	s must be met to qua	alify for admission to as-
			sessment. The lectu	rer will inform stude	nts about the respective details
			at the beginning of t	he course. Registrat	ion for the course will be con-
			sidered a declaratio	n of will to seek adm	ission to assessment. If stu-
			dents have obtained	the qualification fo	r admission to assessment over
			the course of the sel	mester, the lecturer	will put their registration for as-
			sessment into errect	. Students who mee	t all prerequisites will be admit-
			coccmont at a later	date students will b	ave to obtain the qualification
			for admission to ass	sessment anew Cou	rses offered online by Virtuelle
			Hochschule Bavern	(vhb) in the field of r	nathematics are always incor-
			porated into a modu	le with an exercise.	The respective modules can be
			identified by the wo	rd virtuell (online) ad	dded in brackets. Registration for
			the exercise must al	ways be made via Sl	B@Home at the beginning of the
			course. This registra	tion for the exercise	will be considered a declaration
			of will to seek admis	ssion to assessment	. If the exercise was successful-
			ly completed, the le	cturer will put the reg	gistration for assessment into ef-
			fect at the end of the	e course.	
Conten	ts				
In a cou technic	urse off ques in	fered by Virtuelle Hochsc e-learning and blended l	hule Bayern (vhb), the earning for teaching	e student becomes a mathematics.	acquainted with and reflects on
Intende	ed lear	ning outcomes			
The stu well as	ident is their p	acquainted with basic m otentials and limitations	ethods of e-learning	and blended learnir	ng in teaching methematics, as
Course	s (type	, number of weekly conta	ct hours, language —	· if other than Germa	n)
Ü (no ir	nforma	tion on SWS (weekly cont	act hours) and cours	e language available	2)
Metho ster, in	d of ass formati	sessment (type, scope, la ion on whether module ca	nguage — if other tha an be chosen to earn	an German, examina a bonus)	tion offered — if not every seme-
web-ba	ased pr	oject assignments and te	sts (length/expendit	ure of time to be ann	ounced at the beginning of the
Allocat	ion of I	places			
Additional information					
Workload					
Teachi		۵			
	is cycl				

Module appears in

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

First state examination for the teaching degree Grundschule Didactics in Mathematics (Primary School) (2009) First state examination for the teaching degree Hauptschule Mathematics (2009)

First state examination for the teaching degree Hauptschule Didactics in Mathematics (Secondary School) (2009) First state examination for the teaching degree Realschule Mathematics (2009)

First state examination for the teaching degree Gymnasium Mathematics (2012)

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

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary 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 Mathematics (2013)

	ulle				Abbreviation
Advanced Didactics of Mathematics (German Hauptschule)			erman Hauptschule)		10-M-DVHS-092-m01
Madula		in a tax		Madula offered by	·
Module	coord		(t))	Module offered by	- 11
Dean of	Studie	es Mathematik (Mathema	atics)	Institute of Mathem	atics
2	(not) s	uccessfully completed	Only after succ. com		
Duratio	n (100) 5		Other prerequisites		
1 semes	ster	undergraduate			
Content	S	0			
Discussion of topics in teaching mathematics in Hauptschule taking into account different aspects, in particu- lar mathematical foundations, didactic analyses, contemporary discussions in mathematics didactics as well as possible approaches in the classroom.					
Intende	d learr	ning outcomes			
The stud dering s	dent is Subject	able to discuss central to -specific, didactical and	opics and issues on t methodical aspects.	eaching mathematic	s in German Hauptschule, consi-
Courses	s (type,	number of weekly conta	ct hours, language —	if other than Germa	n)
S (no in	format	ion on SWS (weekly cont	act hours) and cours	e language available)
Method ster, inf	of ass ormati	essment (type, scope, la on on whether module ca	nguage — if other tha an be chosen to earn	an German, examina a bonus)	tion offered — if not every seme-
a) talk (approx	x. 60 minutes) or b) assig	nment to be complet	ed at home (approx.	50 to 60 hours)
Allocati	on of p	olaces			
Additio	nal info	ormation			
Workloa	ad				
Teachin	g cycle	9			
Referre	d to in	LPOI (examination regu	lations for teaching-c	legree programmes)	
§ 51 (1)	4. Matl	hematik Fachdidaktik			
Module appears in					
First state examination for the teaching degree Hauptschule Mathematics (2009) 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)					
First sta (2013)	te exai	mination for the teaching	degree Sonderpäda	gogik Didactics in Ma	athematics (Middle School)
First sta First sta	te exai te exai	mination for the teaching mination for the teaching	degree Mittelschule degree Mittelschule	Mathematics (2013) Didactics in Mathen	natics (Middle School) (2013)

Modul	e title				Abbreviation	
Mathe	Mathematics in German Hauptschule (Arithmetic and Algeb			ra)	10-M-MH1-092-m01	
Modul	e coord	inator		Module offered by		
Dean o	of Studie	es Mathematik (Mathema	atics)	Institute of Mathem	natics	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
10	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
2 seme	2 semester undergraduate					
Conter	nts					
Discus aspect	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.					
Intend	ed learı	ning outcomes				
The stu arithm matics measu	udent is etic and , detect res and	acquainted with basic m algebra. He/She knows s common difficulties an support. He/She knows	athematical ways of about criteria to asse d typical misconcepti teaching and learning	thinking and workin ess media and their ions of pupils and ki g strategies and can	g techniques in the fields of employment in teaching mathe- nows about adequate counter- assess them.	
Course	s (type	, number of weekly conta	ct hours, language —	if other than Germa	ın)	
This m	odule c	omprises 3 module comp	onents. Information	on courses will be li	sted separately for each module	
• 1 • 1 • 1	o-M-MI o-M-MI	H1-P-092: M (no informat H1-1-092: V + Ü (no inforn H1-2-092: V + Ü (no inforr	ion on SWS (weekly c nation on SWS (week nation on SWS (week	ontact hours) and co ly contact hours) and ly contact hours) an	ourse language available) d course language available) d course language available)	
Metho ster. in	d of ass formati	essment (type, scope, la	nguage — if other tha	in German, examina a bonus)	tion offered — if not every seme-	
Assess low. Ur vidual	ment ir nless st assessi	n this module comprises ated otherwise, successf ments.	the assessments in th ul completion of the r	ne individual module module will require s	e components as specified be- successful completion of all indi-	
Assess bra)	sment i	n module component 10-1	M-MH1-P-092: Mathe	matics in German H	auptschule (Arithmetic and Alge-	
• 1 • v r § t • (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- 					
Assess	sment in	n module component 10-l	M-MH1-1-092: Mathe	matics in German Ha	auptschule (Arithmetic) Mathe-	
matics	 matics 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. 					
tics in	German	Hauptschule (Algebra)			auptochate (Atgebia) mathema-	
• 2 • e k	ECTS, exercise be success	Method of grading: (not) s: At the beginning of th essfully completed over t fully completed.	successfully complet ne course, the lecture he course of the sem	ed er will specify the ty ester for the module	ype and scope of exercises to e component to be considered	

Allocation of places

Additional information

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Workload

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Teaching cycle

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)

Module title				Abbreviation	
Mathematics in German Hauptschule (Geometry, use-oriented teaching and				10-M-MH2-092-m01	
Stochastics)	• .		AA 1 1 66 1 1		
Module coord			Module offered by		
Dean of Studi	es Mathematik (Mathema	atics)	Institute of Mathem	iatics	
10 nume	pd of grading	Only after succ. com	pl. of module(s)		
Duration	Module level	Other proroquisites			
2 semester	undergraduate				
Contents		<u> </u>			
Discussion of schule taking cluding mode	basic topics in teaching into account didactic asp rn technologies.	geometry, stochastics pects as well as possi	and application-or bilities of implemen	iented mathematics in Haupt- tation in the classroom, also in-	
Intended lear	ning outcomes				
The student is metry, applica their employn and knows ab can assess th	acquainted with basic m ation-oriented mathemati nent in teaching mathema out adequate counterme em.	nathematical ways of cs and stochastics. H atics, detects commo asures and support. I	thinking and workin e/She knows about n difficulties and typ He/She knows teach	g techniques in the fields of geo- criteria to assess media and pical misconceptions of pupils ning and learning strategies and	
Courses (type	, number of weekly conta	ct hours, language —	if other than Germa	ın)	
 component. 10-M-MH2-P-092: M (no information on SWS (weekly contact hours) and course language available) 10-M-MH2-1-092: V + Ü (no information on SWS (weekly contact hours) and course language available) 10-M-MH2-2-092: 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 can be chosen to earn a 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-MH2-P-092: Mathematics in German Hauptschule (Geometry, use-oriented teaching and Stochastics) 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-MH2-1 and 10-M-MH2-2 is a prerequisite for participation in module component 10-M-MH2-P. Assessment in module component 10-M-MH2-1-092: Mathematics in German Hauptschule (Geometry) Mathematics in German Hauptschule (Geometry) 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 					
 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-MH2-2-092: Mathematics in German Hauptschule (Exam in Geometry, used-oriented teaching and Stochastics) Mathematics in German Hauptschule (Exam in Geometry, used-oriented teaching and Stochastics) 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

Additional information

UNIVERSITÄT

WÜRZBURG

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Workload

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)

Module title					Abbreviation
Basics	in Aritl	nmetics (virtual course)			10-M-VHBAri-092-m01
Modul	e coord	inator		Module offered by	
Dean c	of Studi	es Mathematik (Mathem	atics)	Institute of Mathem	natics
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)	
3	(not)	successfully completed			
Duratio	on	Module level	Other prerequisites		
1 seme	ester	undergraduate	Certain prerequisite	s must be met to qua	alify for admission to as-
		sessment. The lectu	rer will inform stude	nts about the respective details	
			at the beginning of t	he course. Registrat	ion for the course will be con-
			sidered a declaratio	n of will to seek adm	nission to assessment. If stu-
			dents have obtained	the qualification fo	r admission to assessment over
			the course of the se	mester, the lecturer	t all proroquisitos will be admit
			ted to assessment i	n the current or in th	e subsequent semester. For as-
			sessment at a later	date, students will h	ave to obtain the qualification
			for admission to ass	sessment anew. Cou	rses offered online by Virtuelle
			Hochschule Bayern	(vhb) in the field of r	nathematics are always incor-
			porated into a modu	le with an exercise.	The respective modules can be
			identified by the wo	rd virtuell (online) ad	dded in brackets. Registration for
			the exercise must al	ways be made via S	B@Home at the beginning of the
			course. This registra	tion for the exercise	will be considered a declaration
			of will to seek admis	ssion to assessment	. If the exercise was successful-
			ly completed, the le	cturer will put the reg	gistration for assessment into ef-
Carta			rect at the end of the	e course.	
Conter		n taashing avithmatics is		ility the one prime pu	umbara cat thaan
Intend	opics o		<u>1 school, e. g. divisab</u>	nity theory, prime nu	impers, set theory.
The stu	eu lear	arns basis topics in the	tooching of arithmatic	a and the related m	athomatical backgrounds and
proofs.	. He/Sh	e is acquainted with the	employment of new t	echnologies for teac	hing arithmetic in school.
Course	es (type	, number of weekly cont	act hours, language –	- if other than Germa	n)
Ü (no i	nforma	tion on SWS (weekly con	tact hours) and cours	e language available	2)
Metho	d of ass	sessment (type, scope, la	anguage — if other tha	an German, examina	tion offered — if not every seme-
ster, in	format	ion on whether module c	an be chosen to earn	a bonus)	
web-ba	ased pr	oject assignments and to	ests (length/expendit	ure of time to be ann	ounced at the beginning of the
Allocat	zion of I	places			
Additio	onal inf	ormation			
Workload					
Teaching cycle					
Referre	ed to in	LPOI (examination regu	ulations for teaching-o	degree programmes)	
LA Sonder (Middle Sc	pädagogik :hool) (201	Didactics in Mathematics 3)	JMU Würzburg ● genera amt Sonderpädagogik	ted 26-Aug-2024 • exam. reg (Mittelschule-Didaktikfach) M	, data record Lehr- page 13 / 20 Nathematik - 2013

Module appears in

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

First state examination for the teaching degree Grundschule Didactics in Mathematics (Primary School) (2009) First state examination for the teaching degree Hauptschule Mathematics (2009)

First state examination for the teaching degree Hauptschule Didactics in Mathematics (Secondary School) (2009) First state examination for the teaching degree Realschule Mathematics (2009)

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

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary 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 Mathematics (2013)

Module title				Abbreviation	
Basics	in Scho	ool Geometry (virtual cou	ırse)		10-M-VHBGeo-092-m01
Module	e coord	inator		Module offered by	
Dean o	f Studi	es Mathematik (Mathema	atics)	Institute of Mathem	natics
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
3	(not) s	successfully completed			
Duratio	n	Module level	Other prerequisites		
Duration Module level 1 semester undergraduate		Certain prerequisites must be met to qualify for admission to as- sessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be con- sidered a declaration of will to seek admission to assessment. If stu- dents have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for as- sessment into effect. Students who meet all prerequisites will be admit- ted to assessment in the current or in the subsequent semester. For as- sessment at a later date, students will have to obtain the qualification for admission to assessment anew. Courses offered online by Virtuelle Hochschule Bayern (vhb) in the field of mathematics are always incor- porated into a module with an exercise. The respective modules can be identified by the word virtuell (online) added in brackets. Registration for the exercise must always be made via SB@Home at the beginning of the course. This registration for the exercise will be considered a declaration of will to seek admission to assessment. If the exercise was successful-			
Conten	ts				
Revisio ject-spo metry.	Revision and consolidation of the fundamental topics in elementary geometry that are prerequisites for the sub- ject-specific and didactic courses (in particular teaching degrees Grundschule, Hauptschule, Realschule) in geo- metry.				
Intende	ed lear	ning outcomes			
The student has basic knowledge of school geometry, as required for the study of mathematics and its didac- tics.He/She is acquainted with the employment of new technologies for teaching geometry in school.					
Courses (type, number of weekly contact hours, language — if other than German)					
Ü (no ir	Ü (no information on SWS (weekly contact hours) and course language available)				
Methoo ster, in	l of ass formati	sessment (type, scope, la ion on whether module c	anguage — if other tha an be chosen to earn	an German, examina a bonus)	tion offered — if not every seme-

web-based project assignments and tests (length/expenditure of time to be announced at the beginning of the course)

Allocation of places

Additional information

Workload

Teaching cycle

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Module appears in

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

First state examination for the teaching degree Grundschule Didactics in Mathematics (Primary School) (2009) First state examination for the teaching degree Hauptschule Mathematics (2009)

First state examination for the teaching degree Hauptschule Didactics in Mathematics (Secondary School) (2009) First state examination for the teaching degree Realschule Mathematics (2009)

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

First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary 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 Mathematics (2013)

Module	e title				Abbreviation	
Mathematics in Class 10 (virtual course)			e)		10-M-VHBM10-092-m01	
Module	e coord	inator		Module offered by	<u> </u>	
Dean o	f Studi	es Mathematik (Mathema	atics)	tics) Institute of Mathematics		
ECTS	Meth	od of grading	Only after succ. com	pl. of module(s)		
3	(not)	successfully completed				
Duratio	on	Module level	Other prerequisites			
1 semester undergraduate		Certain prerequisites must be met to quality for admission to as- sessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be con- sidered a declaration of will to seek admission to assessment. If stu- dents have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for as- sessment into effect. Students who meet all prerequisites will be admit- ted to assessment in the current or in the subsequent semester. For as- sessment at a later date, students will have to obtain the qualification for admission to assessment anew. Courses offered online by Virtuelle Hochschule Bayern (vhb) in the field of mathematics are always incor- porated into a module with an exercise. The respective modules can be identified by the word virtuell (online) added in brackets. Registration for the exercise must always be made via SB@Home at the beginning of the course. This registration for the exercise will be considered a declaration of will to seek admission to assessment. If the exercise was successful- ly completed, the lecturer will put the registration for assessment into ef-				
Conten	its	1	L			
Basic t	opics o	n teaching mathematics	in tenth grade in Hau	ptschule, Realschule	e and Gymnasium.	
Intend	ed lear	ning outcomes		·		
The stu schule of new	ident le , as we techno	earns basic topics in the t Il as the related mathema logies for teaching math	eaching of mathemat atical backgrounds ar ematics in tenth form	tics in tenth form at ond proofs. He/She is	German Mittelschule and Real- acquainted with the employment	
Course	s (type	, number of weekly conta	ct hours, language —	if other than Germa	n)	
Ü (no iı	nforma	tion on SWS (weekly cont	act hours) and cours	e language available	e)	
Metho ster, in	d of as format	sessment (type, scope, la ion on whether module ca	nguage — if other tha an be chosen to earn	an German, examina a bonus)	tion offered — if not every seme-	
web-ba course	web-based project assignments and tests (length/expenditure of time to be announced at the beginning of the course)					
Allocation of places						
Additional information						
Worklo	Workload					
Teachi	ng cycl	e				

Module appears in

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

First state examination for the teaching degree Hauptschule Didactics in Mathematics (Secondary School) (2009) First state examination for the teaching degree Realschule Mathematics (2009)

First state examination for the teaching degree Gymnasium Mathematics (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 Mathematics (2013)

Module title				Abbreviation		
Stochas	stics in	Sekundarstufe I (virtual	course)		10-M-VHBSto-092-m01	
Module	coord	inator		Module offered by		
Dean of	Studie	es Mathematik (Mathema	atics)	tics) Institute of Mathematics		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
3	(not) s	successfully completed				
Duratio	n	Module level	Other prerequisites			
1 semes	ster	undergraduate	Certain prerequisite	s must be met to qua	alify for admission to as-	
			sessment. The lectu	rer will inform stude	nts about the respective details	
			at the beginning of t	he course. Registrat	ion for the course will be con-	
			sidered a declaratio	n of will to seek adm	ission to assessment. If stu-	
			dents have obtained	the qualification fo	r admission to assessment over	
			concernent into offect	filester, the lecturer	t all proroquisitos will be admit	
			ted to according to the test	n the current or in th	au prerequisites will be admit-	
			sessment at a later	date_students will h	ave to obtain the qualification	
			for admission to ass	sessment anew. Cou	rses offered online by Virtuelle	
			Hochschule Bavern	(vhb) in the field of r	nathematics are always incor-	
			porated into a modu	le with an exercise.	The respective modules can be	
			, identified by the wo	rd virtuell (online) ad	dded in brackets. Registration for	
			the exercise must al	ways be made via Sl	B@Home at the beginning of the	
			course. This registra	tion for the exercise	will be considered a declaration	
			of will to seek admis	ssion to assessment	. If the exercise was successful-	
			ly completed, the le	cturer will put the reg	gistration for assessment into ef-	
			fect at the end of the	e course.		
Content	S					
Revisior fic and o	n and o didacti	consolidation of the fund c courses in stochastics.	amental topics in sto	chastics that are pre	erequisites for the subject-speci-	
Intende	d learı	ning outcomes				
The stuc tics.He/	dent h She is	as basic knowledge of sto acquainted with the emp	ochastics, as required ployment of new tech	d for the study of ma nologies for teachin	thematics and its didac- g stochastics in school.	
Courses	(type	, number of weekly conta	ct hours, language —	- if other than Germa	n)	
Ü (no in	format	tion on SWS (weekly cont	act hours) and cours	e language available	2)	
Method ster, info	of ass ormati	essment (type, scope, la on on whether module ca	nguage — if other tha an be chosen to earn	an German, examina a bonus)	tion offered — if not every seme-	
web-bas	sed pr	oject assignments and te	sts (length/expendit	ure of time to be ann	ounced at the beginning of the	
Allocati	Allocation of places					
·						
Additional information						
Workload						
WUIKIDAU						
	a a					
Teachin	g cycl	8				

Module appears in

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

First state examination for the teaching degree Hauptschule Didactics in Mathematics (Secondary School) (2009) First state examination for the teaching degree Realschule Mathematics (2009)

First state examination for the teaching degree Gymnasium Mathematics (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 Mathematics (2013)