

Annex SFB

Studienfachbeschreibung (subject description, SFB) for the subject Didactics in Mathematics (Secondary School) as Didaktikfach with the degree "Erste Staatsprüfung für das Lehramt an Hauptschulen"

Responsible: Institute of Mathematics

Examination regulations version: 2009

Abbreviations used: Course types: **E** = field trip, **K** = colloquium, **O** = conversatorium, **P** = placement/lab course, **R** = project, **S** = seminar, **T** = tutorial, **Ü** = exercise, **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 for the modules in this SFB:

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

Information on assessment procedures:

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 a 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:

LASP02009

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

23-May-2012 (2012-81)

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.

Every module will be described using the following form:

Abbreviation	Module title											
	ECTS Durat		Duration	(in semesters)								
	Courses		To be sp	be specified in the form X (y) with course type X abbreviated as specified above and number of weekly contact hours y								
	Method of as	sessm	ent									
	Only after su completion o		ıl if applic	if applicable								
	Other prereq	uisites	if applic	if applicable								
	Participants on of places		ocati- if applic	able								
	Additional in	format	ion if applic	if applicable								
	Referred to in	1 LPO I	if applic	f applicable (examination regulations for teaching-degree programmes)								

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 Hauptschule (Didactics of a Group of Subjects of Hauptschule).

schule). 10-M-MH1-092- m01	Mathe	matics i	n German	Hauptschule (Arithmet	ic and Algebra)						
	ECTS	10	Duration								
	Course		J 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.	This module comprises 3 module components. Information on courses will be listed separately for each module component. • 10-M-MH1-P-092: M (no information on SWS (weekly contact hours) and course language available) • 10-M-MH1-1-092: V + Ü (no information on SWS (weekly contact hours) and course language available) • 10-M-MH1-2-092: V + Ü (no information on SWS (weekly contact hours) and course language available)							
	Metho	d of ass	essment	Assessment in module 1 ECTS, Method written examina an oral examina 20 minutes, gro Only after succe M-MH1-1 and 10 Assessment in module	dule comprises the assessments in the individual messful completion of the module will require success component 10-M-MH1-P-092: Mathematics in Germ of grading: numerical grade tion (approx. 120 minutes); if announced by the lect tion of one candidate each (approx. 15 minutes) or ar ups of 3: approx. 30 minutes) or by a written and/or ssful completion of module components: Successful component 10-M-MH1-1-092: Mathematics in Germ throatics	sful completion of nan Hauptschule (Aurer, the written en oral examination multi-media portful completion of the component 10-1	all individual assessments. Arithmetic and Algebra) xamination can be replaced by in groups (groups of 2: approx. olio (as announced) e two module components 10-M-MH1-P.				
	Referre	ed to in I		 exercises: At the completed over Assessment in module Hauptschule (Algebra) 4 ECTS, Method exercises: At the completed over § 38 (1) 1. Didaktik der 	of grading: (not) successfully completed beginning of the course, the lecturer will specify the the course of the semester for the module compone component 10-M-MH1-2-092: Mathematics in Germ	nt to be considere tan Hauptschule (A	ed successfully completed. Algebra) Mathematics in German of exercises to be successfully				

10-M-MH2-092-	Mather	matics i	n German	Haupt	Hauptschule (Geometry, use-oriented teaching and Stochastics)							
mo1	ECTS	10	Duration	n	2 semester	Method of gradin	g numerical grade	Modul level	undergraduate			
	Course	S		This module comprises 3 module components. Information on courses will be listed separately for each module 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	d of asse	essment				sessments in the individual in the module will require successive.		ts as specified below. Unless f 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 exe completed over the course of the semester for the module component to be considered successfully component in module component 10-M-MH2-2-092: Mathematics in German Hauptschule (Exam teaching and Stochastics) Mathematics in German Hauptschule (Exam in Geometry, used-oriented 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. 								
		d to in L		§ 38 (1) 1. Didaktik der Hauptschule Mathematik § 38 (1) 1. Didaktik der Mittelschule Mathematik								
Freier Bereich (gen	ieral as v	vell as s	ubiect-sp	ecific e	electives)							

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".

	Advanc	ed Dida	ctics of N	Nathem	atics (German Haup	tschule)			
HS-092-m01 ECTS 2 Duration 1 semester Method of grading (not) successfully completed Modul level									undergraduate
	Courses S (no information on SWS (weekly contact hours) and course language available)								
	Method of assessment a) talk (approx. 60 minutes) or b) assignment to be completed at home (approx. 50 to 60 h							ox. 50 to 60 hou	irs)
Referred to in LPO I § 51 (1) 4. Mathematik Fachdidaktik									

10-M-DCMU-092-	Computers in Mathematical Teaching													
mo1	ECTS 3 Duration				1 semester Method of grading (not) successfully completed Modul level undergraduate									
	Course	es		V (no	V (no information on SWS (weekly contact hours) and course language available)									
	Metho	d of ass	essment				ecified by the lecturer a	t the beg	ginning of the c	course)				
				Assessment offered: every two years, summer semester										
10-M-DM-					in Mathematics (German Hauptschule) 1 semester Method of grading (not) successfully completed Modul level undergraduate									
HS-092-m01	ECTS	3	Duration		1 semester					undergraduate				
	Course						ırs) and course languag							
					a) talk (approx. 45 minutes) or b) project (approx. 5 to 15 pages) or c) portfolio (approx. 5 to 15 pages)									
10-M-DV-					earning in Mathematics at school									
HB-092-m01	ECTS	3	Duratio	,	1 semester		(not) successfully com			undergraduate				
	Course			_ `			ırs) and course languag							
		d of ass prerequi	essment				- 			ne beginning of the course) nform students about the respec-				
				tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment 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 incorporated 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 successfully completed, the lecturer will put the registration for assessment into effect at the end of the course.										
10-M-VH- BSto-092-m01			1		stufe I (virtual course)									
6310-092-11101	ECTS	3	Duration											
	Course	_		Ü (no information on SWS (weekly contact hours) and course language available)										
				web-based project assignments and tests (length/expenditure of time to be announced at the beginning of the course)										
	otner	prerequi	sites	tive d on to the le sessn fication matic (online This r	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment 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 incorporated 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 successfully completed, the lecturer will put the registration for assessment into effect at the end of the course.									

Basics i	in Arith	metics (vi	rtual course)													
ECTS 3 Duration			1	1 semester	I	Method o	f grading	g (not)) succes	ssfully	complet	ted	Modul l	evel	undergraduate	
Courses			Ü (no i													
Method	of asse	essment	web-ba	web-based project assignments and tests (length/expenditure of time to be announced at the beginning of the course)												
other pr	rerequis		tive de on to a the lec sessmification matics (online This re	tive details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment 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 incorporated 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												
Basics	in Scho	ol Geome	try (virt	tual course)												
ECTS	3	Duration	1	1 semester	I	Method o	f grading	g (not)) succes	ssfully	complet	ted	Modul l	evel	undergraduate	
Courses	5		Ü (no i	nformation on S	SWS (weekly co	ntact ho	urs) ar	nd cour	se lang	uage av	⁄ailabl	le)			
Method	l of asse	essment	web-ba	web-based project assignments and tests (length/expenditure of time to be announced at the beginning of the course)												
			on to assessment. If students have obtained the qualification for admission to assess the lecturer will put their registration for assessment into effect. Students who meet all sessment in the current or in the subsequent semester. For assessment at a later date fication for admission to assessment anew. Courses offered online by Virtuelle Hochse matics are always incorporated into a module with an exercise. The respective module (online) added in brackets. Registration for the exercise must always be made via SB@ This registration for the exercise will be considered a declaration of will to seek admis						assessi meet all er date, Hochso module via SB@ admiss	ment of l prerect, stude chule Best can be of the stude Best can be of the student best for t	nt over the course of the semester, erequisites will be admitted to asudents will have to obtain the qualite Bayern (vhb) in the field of mathem be identified by the word virtuell me at the beginning of the course. In to assessment. If the exercise was					
	natics i															
ECTS	3	٠												evel	undergraduate	
			Ü (no information on SWS (weekly contact hours) and course language available)													
			Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment 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 incorporated 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 successfully completed, the lecturer will put the registration for assessment into effect at the end of the course.													
	Basics ECTS Courses Method other p Mather ECTS Courses Method other p	ECTS 3 Courses Method of assorting of the second of the sec	ECTS 3 Duration Courses Method of assessment other prerequisites Basics in School Geome ECTS 3 Duration Courses Method of assessment other prerequisites Mathematics in Class 10 ECTS 3 Duration Courses Method of assessment other prerequisites	Courses Web-bother prerequisites U (no into a sessment on the leads sessment on the leads sessment of the lead	Method of assessment web-based project as other prerequisites Certain prerequisites tive details at the beg on to assessment. If s the lecturer will put the sessment in the curre fication for admission matics are always incompleted in the prerequisites Uno information on seedings Basics in School Geometry (virtual course) ECTS Duration 1 semester Courses Üno information on seedings Uno information on seedings Method of assessment web-based project as Other prerequisites Certain prerequisites Other prerequisites Uno information on seedings Mathematics in Class 10 (virtual course) ECTS Duration 1 semester Ourses Üno information on seedings Other prerequisites Uno information on	Courses	ECTS 3 Duration 1 semester Method of Courses Ü (no information on SWS (weekly content of the prerequisites) Method of assessment web-based project assignments and other prerequisites Certain prerequisites must be met to tive details at the beginning of the conton to assessment. If students have content in the current or in the subfication for admission to assessment matics are always incorporated into (online) added in brackets. Registrat This registration for the exercise will successfully completed, the lecturer Method of assessment web-based project assignments and other prerequisites Method of assessment web-based project assignments and other prerequisites Method of assessment web-based project assignments and other prerequisites on to assessment. If students have conton to assessment in the current or in the subfication for admission to assessment matics are always incorporated into (online) added in brackets. Registrat This registration for the exercise will successfully completed, the lecturer Method of assessment web-based project assignments and other prerequisites Mathematics in Class 10 (virtual course) ECTS 3 Duration 1 semester Method of assessment of the current or in the subfication for the exercise will successfully completed, the lecturer will put their registration of assessment in the current or in the subfication for admission to assessment of the current or in the subfication for admission to assessment in the current or in the subfication for admission to assessment in the current or in the subfication for admission to assessment and other prerequisites must be met to conton assessment. If students have on the assessment in the current or in the subfication for admission to assessment matics are always incorporated into (online) added in brackets. Registrat This registration for the exercise will successfully completed, the lecturer will put their registration sessment in the current or in the subfication for admission to assessment matics are always incorporated into (online) added	ECTS 3 Duration 1 semester Method of grading Courses Ü (no information on SWS (weekly contact he Method of assessment web-based project assignments and tests (le other prerequisites	ECTS 3 Duration 1 semester Method of grading (not Courses Ü (no information on SWS (weekly contact hours) at Method of assessment web-based project assignments and tests (length/course) and tive details at the beginning of the course. Registration on to assessment. If students have obtained the quality for admits and the current or in the subsequent semeral fication for admission to assessment anew. Course matics are always incorporated into a module with (online) added in brackets. Registration for the exertise will be considered successfully completed, the lecturer will put the registration of assessment web-based project assignments and tests (length/course) and tive details at the beginning of the course. Registration to assessment in the current or in the subsequent sement in the cur	ECTS 3 Duration 1 semester Method of grading (not) succe. Courses Ü (no information on SWS (weekly contact hours) and cour Method of assessment web-based project assignments and tests (length/expendion to the prerequisites web-based project assignments and tests (length/expendion to the prerequisites web-based project assignments and tests (length/expendion to the prerequisites web-based project assignments and tests (length/expendion to assessment in the current or in the subsequent semester. For fication for admission to assessment anew. Courses offere matics are always incorporated into a module with an exer (online) added in brackets. Registration for the exercise mill be considered a declar successfully completed, the lecturer will put the registration of assessment web-based project assignments and tests (length/expendion to the prerequisites) Basics in School Geometry (virtual course) ECTS 3 Duration 1 semester Method of grading (not) succe web-based project assignments and tests (length/expendion to the prerequisites must be met to qualify for admission to assessment and tests (length/expendion to assessment in the current or in the subsequent semester. For fication for admission to assessment anew. Courses offere matics are always incorporated into a module with an exer (online) added in brackets. Registration for the exercise milliput their registration for the exercise milliput the registration for the exercise milliput their registration for the exercise milliput their registration for the exercise milliput the registration for the exercise milliput the registration for the exercise milliput their registration for the exercise milliput their registration for admission to assessment anew. Courses offere matics are always incorporated into a module with an exer (online) added in brackets. Registration for admission to ass	ECTS 3 Duration 1 semester Method of grading (not) successfully	ECTS 3 Duration 1 semester Method of grading (not) successfully completed to other prerequisites Web-based project assignments and tests (length/expenditure of time to other prerequisites Certain prerequisites must be met to qualify for admission to assessment tive details at the beginning of the course. Registration for the course will on to assessment in the current or in the subsequent semester. For assessment and the course of the prerequisites Basics in School Geometry (virtual course) ECTS 3 Duration 1 semester Method of grading (not) successfully completed, the lecturer will put their registration for the exercise must always be raised and the project assignments and tests (length/expenditure of time to other prerequisites) Certain prerequisites Certain prerequisites must be met to qualify for admission to assessment in the current or in the subsequent semester. For assessment and the project assignments and tests (length/expenditure of time to other prerequisites) Certain prerequisites Certain prerequisites Certain prerequisites must be met to qualify for admission to assessment in the current or in the subsequent semester. For assessment in the current or in the subsequent semester. For assessment in the current or in the subsequent semester. For assessment into effect. Students sessment into effect successfully completed, the lecturer will put the registration for the exercise must always be raised of a sessessment into effect. Students and considered a declaration of will to successfully completed, the lecturer will put their registration for the exercise must always be raised of the course. Registration for the course will on to assessment into effect. Students are always incorporated into a module with an exercise. The respective for admission to assessment into ef	Courses	Courses	Course	Course

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 Hauptschule may write this thesis in the subject Didaktik einer Fächergruppe der Hauptschule (Didactics of a Group of Subjects of Hauptschule), 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.

	10-M-HM- Thesis in Mathematics (teaching degree at German Hauptschule)												
- 1	10-M-HM-												
HSD-092-m01 ECTS 10 Duration 1 semester Method of grading numerical grade Modul level undergradu										undergraduate			
Courses no courses assigned													
		Method	l of asse		written thesis (approx. 250 to 300 hours total) Language of assessment: German, exceptions in accordance with Section 29 Subsection 4 LPO I (examination regulations for teaching degree programmes)								
		Module comple		ssfully	Where	Where applicable, specific modules/module components as specified by supervisor.							
Additional Information Additional information on module duration: 1 to 2 semesters.													