



Annex SFB

Studienfachbeschreibung (subject description, SFB) for the subject Mathematics as Unterrichtsfach with the degree "Erste Staatsprüfung für das Lehramt an Grundschulen"

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

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, $\mathbf{\ddot{U}}$ = 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 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 cre- ditable 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 me- thod 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:

LASPO2015

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

05-Oct-2015 (2015-187)

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 Durati			ion	(in semesters)	Method of grading		Module level			
	Courses			To be spe	o 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	ssessn	nent								
Only after successful completion of			ūl	if applica	ble						
	Other prerequisites			if applicable							
	Participants and allocati- on of places		if applicable								
	Additional information		if applicable								
	Referred to in	n LPO I		if applica	ble (examination re	gulations for teachin	g-degree programmes)				

Scientific Disciplin	e (54 ECTS credi	its)							
Cumpulsory Course	es (54 ECTS cred	lits)							
10-M-ELZT-152-	Elementary Number Theory								
m01	ECTS 6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses		V (4) -	+ Ü (2)					
	Method of ass	essment	writte If ann of one date)	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 candi- date) and written exercises (approx. 12 exercise sheets, approx. 3 exercises per sheet).					
	Referred to in L		§ 51	Nr. 3					
10-M-EL-	Elementary Ge	ometry					1		
GE-152-1101	ECTS 6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses		V (4) -	+ U (2)				_	
	Method of ass	essment	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 candi- date) and written exercises (approx. 12 exercise sheets, approx. 3 exercises per sheet).						
	Referred to in L	_PO I	§ 51	Nr. 3					
10-M-ELST-152-	Elementary Stochastics								
11101	ECTS 5	Duration	n Lisson	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses		V (3) -	+ U (1)				_	
	Method of ass	essment	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 candi- date) and written exercises (approx. 12 exercise sheets, approx. 3 exercises per sheet).						
	Referred to in I	PO I	§ 51 l	Nr. 3					
10-M-GRLA-152-	Basic Linear A	nalysis							
m01	ECTS 9	Duration	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses		V (4) + Ü (2)						
	Method of assessment		writte If ann of one date). credit	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 candi- date). creditable for bonus					
	Referred to in I	PO I	§ 51	Nr. 2					

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10-M-GRAN-152-	Basic A	Analysis	;					1			
m01	ECTS	12	Duration	n	2 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	!S		V (4) ·	+ Ü (2) + V (2) + Ü (2)	. <u></u>)		-			
	Metho	d of ass	essment	writte	n examination (app	rox. 60 to 120 minute	s).				
				lf ann	ounced by the lectu	rer at the beginning c	f the course, the written exami	nation may be i	replaced by an oral examination		
				of on data)	of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi-						
				credit	able for bonus						
	Referre	ed to in l	LPO I	§ 51	Nr. 1						
10-M-AN-	Analyt	ic Geom	etry		•						
GE-152-m01	ECTS	6	Duration	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	s		V (4) ·	+ Ü (2)	· · · ·					
	Metho	d of ass	essment	writte	n examination (app	rox. 60 to 90 minutes)				
				lf ann	ounced by the lectu	rer at the beginning c	f the course, the written exami	nation may be I	replaced by an oral examination		
				of on data)	of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi-						
				creditable for bonus							
	Referred to in LPO I			§ 51 Nr. 2							
10-M-GRDG-152-	Basic I	Differen	ntial Equations								
m01	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	5		V (3) ·	+ Ü (2)						
	Method of assessment			writte	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							
				or on date)	or one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi-						
				credit	creditable for bonus						
	Referre	ed to in l	LPO I	§ 51 Nr. 1							
10-M-M3GM-	Review	/ Course	Mathema	atics (German Grundschule	e/Mittelschule/Reals	chule)				
R-152-m01	ECTS	5	Duration	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Course	5		Ü (4)		· · · · · · · · · · · · · · · · · · ·		1			
	Metho	d of ass	essment	a) tal	k (approx. 45 minute	es) or					
				b) pro	ject (10 to 15 pages)						
	Referre	ed to in l	LPO I	§ 51 special branch of science without assignment							

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Teaching (12 ECTS	credits)									
Compulsory Cours	es (12 ECTS cre	edits)								
10-M-DGGS1-152- m01	Didactics of Mathematics - Geometry (German Grundschule)									
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V (2)	+ Ü (2)						
	Method of as	sessment	writte If ann of on date) credit	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 candi- date). creditable for bonus						
	Referred to ir	n LPO I	§ 51 l	Nr. 4						
10-M-DGGS2-152-	Didactics of	Mathemati	cs - Ari	thmetics and Appli	cation of Mathematic	s (German Grundschule)				
m01	ECTS 7	Duratio	n	2 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V (2)	+ Ü (1) + V (2) + Ü (2)					
	Method of assessment		a) oral examination of one candidate each (approx. 30 minutes) or b) oral examination in groups (groups of 2, approx. 15 minutes per candidate) or c) written examination (approx. 60 to 120 minutes)							
	Referred to ir	n LPO I	§ 51 l	§ 51 Nr. 4						
Paper (4 ECTS cred Students studying Praktikum) which r Subsection 1 No. 4 credits obtained an ching-degree progr	its) for a teaching efers to one of LPO I (examin re counted in th ramms).	degree Gru the subjec ation regul he subject	indsch ts they ations Erziehi	ule must complete a v selected as vertief for teaching-degree ungswissenschafter	a practical training in t studiertes Fach (sub programmes). The ol pursuant to Section	didactics and teaching meth ject studied with a focus on oligatory accompanying tuto 10 Subsection 3 LASPO (ger	nodology (studien the scientific disc prial is offered by t neral academic an	begleitendes fachdidaktisches ipline) pursuant to Section 34 he respective subject. The ECTS d examination regulations for tea-		
10-M-SFD-	Practical Trai	ining in Cla	Issrool	n Teaching includin	g Theory (German Gr	undschule)				
PGS-152-m01	ECTS 4	Duratio	n	1 semester	Method of grading	(not) successfully complete	ed Modul level	undergraduate		
	Courses		P (o)	+ S (2)						
	Method of assessment		a) presentation (30 to 45 minutes) with position paper (1 to 2 pages) or b) term paper (10 to 15 pages) Contents and duration of placement as specified in Section 34 Subsection 1 Sentence 1 No. 4 LPO I (examination regulations for teaching-degree programmes); participation in mandatory teaching practice, completion of all set tasks as specified by placement school.							
	Referred to ir	1 LPO I	§ 34	1 Nr. 4						
Freier Bereich (gen Teaching degree st neral academic and areas below.	eral as well as udents must ta d examination	ake modul regulation	pecific es wort s for te	electives) h a total of 15 ECTS aching-degree prog	credits in the area Fre rammes)). To achieve	eier Bereich (general as well the required number of ECT	as subject-specifi S credits, student	c electives) (Section 9 LASPO (ge- s may take any modules from the		

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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".

10-M-DAGS1-152- mo1Selected Topics in Didactics of Ma ECTS2Duration1 s601 s	Mathematics 1 (German Grundschule) . semester Method of grading (not) successfully completed Modul level undergraduate								
mo1 ECTS 2 Duration 15	semester Method of grading (not) successfully completed Modul level undergraduate								
	approx (c minutes) or								
Courses 5 (2)	(approx. (c. minutoc) or								
Method of assessment a) talk (a b) term p c) project Assessm	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								
Referred to in LPO I § 22 II Nr	Vr. 1 h)								
10-M-DMGS1-152- Methodology of Teaching in Math	thematics 1 (German Grundschule)								
mo1 ECTS 3 Duration 1 s	semester Method of grading (not) successfully completed Modul level undergraduate								
Courses S (2)									
Method of assessment a) talk (a b) term p c) project Assessm	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								
Referred to in LPO I § 22 II Nr	§ 22 Nr. 1 h)								
10-M-DAGS2-152- Selected Topics in Didactics of Ma	Selected Topics in Didactics of Mathematics 2 (German Grundschule)								
mo1 ECTS 2 Duration 15	semester Method of grading (not) successfully completed Modul level undergraduate								
Courses S (2)									
Method of assessment a) talk (a b) term p c) project Assessm	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								
Referred to in LPO I § 22 II Nr	lr. 1 h)								
10-M-DMGS2-152- Methodology of Teaching in Math	thematics 2 (German Grundschule)								
mo1 ECTS 3 Duration 15	semester Method of grading (not) successfully completed Modul level undergraduate								
Courses S (2)									
Method of assessmenta) talk (ab) term pc) projectAssessmReferred to in LPO L8 22 II Nr	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								

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10-M-DV-	E-Lea	rning and	Blended	Learn	Learning in Mathematical Teaching (virtual Course)						
HB-152-m01	ECTS	3	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Cours	es		Ü (2)							
				Cours	se type: eLearning,	mostly Virtuelle Hochs	chule Bayern (vhb)				
	Metho	od of ass	essment	proje	ct (web-based, 15 t	o 20 hours) so a voar, winter como	ctor				
	Defer	od to in l	DO I	Asses		ce a year, winter seme	Ster				
	Refer	eu to mit	.PU1	822	Nr. 2 f)						
				§ 22	ll Nr. 3 f)						
10-M-VHBA-	Basic	s in Arith	metics (v	irtual	course)						
ri-152-m01	ECTS	2	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Cours	es	-3	Ü (2)		· · ·					
				Cours	se type: eLearning,	mostly Virtuelle Hochs	chule Bayern (vhb)				
	Method of assessment			project (web-based, 15 to 20 hours)							
	Deferr			Assessment offered: Unce a year, winter semester							
	Referr	eatomi	.PU1	822	§ 22 N[. 1]) S 22 Nr. 2 f)						
				§ 22 II Nr. 3 f)							
10-M-VHBGeo-152-	Basic	s in Scho	ol Geome	etry (virtual course)							
m01	ECTS 2 Duratio		n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Courses			Ü (2)	Ü (2)						
				Course type: eLearning, mostly Virtuelle Hochschule Bayern (vhb)							
	Metho	od of ass	essment	proje	project (web-based, 15 to 20 hours) Assessment offered: Once a year, summer semester						
	Defermed to in LDO L			Assessment onered. Once a year, summer semester							
	Referr	eatomi	.PU1	8 22 8 22	Nr. 1 fl) Nr. 2 fl						
				§ 22 II Nr. 3 f)							
10-M-VH-	Stoch	astics in	Sekunda	rstufe	stufe I (virtual course)						
BSto-152-m01	ECTS	2	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Cours	es		Ü (2)							
			_	Course type: eLearning, mostly Virtuelle Hochschule Bayern (vhb)							
	Metho	od of ass	essment	proje	ct (web-based, 15 t	o 20 hours)	-t - <i>u</i>				
	Defer			Asses	ssment offered: Un	ce a year, winter seme	ster				
	Referr	red to in l	.PU I	822	Nr. 1 h) Nr. 2 f)						
				§ 22	II Nr. 3 f)						

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10-M-VHBM10-152-	Mathe	Nathematics in grade 10 (virtual course)									
m01	ECTS	2	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Cours	es		Ü (2)	Ü (2)						
				Cours	Course type: eLearning, mostly Virtuelle Hochschule Bayern (vhb)						
	Metho	od of ass	essment	project (web-based, 15 to 20 hours) Assessment offered: Once a year, summer semester							
	Referr	ed to in I	_PO I	§ 22 § 22 § 22	Nr. 1 h) Nr. 2 f) Nr. 3 f)						
10-M-VH-	Basics	s of Math	ematics	für Ger	man Grundschule 1	: Arithmetics and Orde	ers of Magnitude (virtual cour	se)			
BAuG-152-mo1	ECTS	2	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Cours	es		Ü (2) Cours	e type: eLearning, n	nostly Virtuelle Hochso	chule Bayern (vhb)				
	Metho	od of ass	essment	project (web-based, 15 to 20 hours) Assessment offered: Once a year, winter semester							
	Referr	ed to in l	PO I	§ 22 Nr. 1 h)							
10-M-VHBGuS-152-	Basics of Mathematics für German Grundschule 2: Geometry and Stochastics (virtual course)										
m01	ECTS 2 Duratio			n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Courses			Ü (2) Course type: eLearning, mostly Virtuelle Hochschule Bayern (vhb)							
	Method of assessment			project (web-based, 15 to 20 hours) Assessment offered: Once a year, summer semester							
	Referr	ed to in l	POI	§ 22 Nr. 1 h)							
10-M-GBM-152-	Basic	Notions	and Meth	ods of Mathematical Reasoning							
m01	ECTS	2	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Courses			$V(1) + \ddot{U}(1)$							
	Metho	od of ass	essment	project (10 to 15 pages) Language of assessment: German and/or English							
	Additi	onal Info	rmation	Addit	ional information or	n module duration: blo	ock taught prior to the beginni	ng of the lecture	e period.		
	Referred to in LPO I			§ 22 Nr. 1 h) § 22 Nr. 2 f)							

10-M-VHBDG-152-	Didactics of Geometry (virtual course)										
m01	ECTS 2 Duration			n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Courses			Ü (2)					_		
				Cours	Course type: eLearning, mostly Virtuelle Hochschule Bayern (vhb)						
	Method	ofasse	essment	project (web-based, 15 to 20 hours)							
	Peferred	to in l		8 22 1	Assessment onered: Once a year, summer semester						
	Keleneu		101	§ 22	§ 22 NI. 1) § 22 Nr. 2 f)						
				§ 22	l Nr. 3 f)						
10-M-VHBDA-152-	Didactic	s of Al	gebra (vii	rtual co	ourse)						
m01	ECTS 2	2	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Courses			Ü (2)							
				Cours	e type: eLearning, n	nostly virtuelle Hochs	chule Bayern (Vhb)				
	Method	orasse	essment	project (web-based, 15 to 20 hours) Assessment offered: Once a year, winter semester							
	Referred to in LPO I			§ 22 Nr. 1 h), § 22 Nr. 2 f)							
				§ 22 Nr. 3 f)							
10-M-VH-	Exam Tutorial Didactics of Mathematics (virtual course)										
BEX-152-m01	ECTS 2 Duration			n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Courses			U (2) Course type: eLearning, mostly Virtuelle Hochschule Bayern (vhb)							
	Method	ofasse	essment	project (web-based, 15 to 20 hours)							
				Assessment offered: Once a year, winter semester							
	Referred to in LPO I			§ 22 Nr. 1 h)							
				9 22 II NT. 2 TJ 8 22 II NT. 2 TJ							
10-M-VHBMa1-152-	Mathem	atics 1	(virtual o	ourse							
mo1	FCTS	2 2	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Courses										
				Course type: eLearning, mostly Virtuelle Hochschule Bayern (vhb)							
	Method of assessment			project (web-based, 15 to 20 hours)							
				Assessment offered: Every two years, winter semester							
	Referred to in LPO I			§ 22 Nr. 1 h)							
			§ 22 II Nr. 2 I) § 22 II Nr. 3 f)								

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VHBMa2-152-m01 ECTS 2 Juarian seemester Method of grading (not) successfully completed Modul level undergraduate Course yee: elearning, mostly Virtuelle Hochschule Bayem (vhb) method of assessment project (web based, 1s to 2 to hours) project (web based, 1s to 1 to project (web project (web based, 1s to 1 to project (web project (web based, 1s to 1 to project (web project (web based, 1s to 1 to project (web project (web based, 1s to 1 to project (web proje	10-M-	Mathematics 2 (virtual course)										
Courses 0 (z) Course type: elearning, mostly Virtuelle Hochschule Bayern (vhb) Method of assessment project (web-based, is to zo hours) Assessment offered: Every two years, summer semester Referred to in LPO1 \$ 22 Nr. 1 h \$ 22 Nr. 2 h \$ 22 Nr.	VHBMa2-152-mo1	ECTS 2	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
Method of assessment Course type: elearning, mostly Virtuelle Hochschule Bayem (vhb) Method of assessment Assessment offered: Every two years, summer semester Referred to in LPO I § 22 II Nr. 1 N 10:-M-MMMG1:152: Methods and Media in Teaching Mathematics 1 (German Grundschule) m01 ECTS 3 Duration Is emester Method of grading (hod) successfully completed Modul level undergraduate Courses S (a) Method of assessment a) talk (approx. 4s, minutes) or b) term paper (is to io pages) or b) project (rob-bases) or c) project (rob-bases) or c) project (rob to is pages) or c) project (rob to is pages) or c) project (rob to is pages) or c) project (rob to apges) or c) projec		Courses		Ü (2)								
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fach (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-HMGS-152-	Thesis in Mathematics (German Grundschule)									
m01	ECTS	10	Duratio	n		Method of grading	numerical grade	Modul level	undergraduate	
	Course	S		No co	urses assigned to m	odule				
	Method of assessment		Hausa hours	rbeit (thesis) pursua)	ant to Section 29 LPC	D I (examination regulations for	teaching-degre	e programmes) (250 to 300		
	Referred to in LPO I			§ 29						

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