

## Module Catalogue for the Subject

# Didactics in Chemistry (Primary School)

as Didaktikfach with the degree "Erste Staatsprüfung für das Lehramt an Grundschulen"

> Examination regulations version: 2015 Responsible: Faculty of Chemistry and Pharmacy

JMU Würzburg • generated 18-Apr-2025 • exam. reg. data record L1|803|-|-|H|2015

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### The subject is divided into

section / sub-section	ECTS credits	starting page
Compulsory Courses	10	5
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Freier Bereich (general as well as subject-specific electives)		10
Extra Skills Teaching Chemistry at the German Grundschule		11
Paper	10	32

#### 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:

#### LASPO2015

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

#### 08-Sep-2015 (2015-128)

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**

(10 ECTS credits)

Successful completion of modules worth no less than 10 ECTS credits in each subject selected as Didaktikfach (subject studied with a focus on teaching methodology) (mandatory courses) is a prerequisite for admission to the Erste Staatsprüfung (First State Examination) in the subject Didaktik der Grundschule (Didactics for Grundschule). In addition, modules worth another 5 ECTS credits must be successfully completed in one of the subjects selected as Didaktikfach (mandatory electives).

Modu	le title				Abbreviation	
	Introduction into Teaching Chemistry for Elementary, Secondary and Middle 08-FD1-DF-LAGM-152-m01					
Schoo	ol (Majo	r Subject)				
Module coordinator Module offered by						
holder of the Professorship of Didactics of Chemistry			cs of Chemistry	Institute of Inorgan	ic Chemistry	
ECTS         Method of grading         Only after succ. compl. of module(s)						
5	nume	rical grade	grade			
Durati	ion	Module level	Other prerequisites			
1 sem	ester	unknown				
Conte	nts					
No inf	ormatio	n on contents available.				
Intend	ded lear	ning outcomes				
No inf	ormatio	n on learning outcomes	available.			
Cours	<b>es</b> (type,	number of weekly contact hours,	language — if other than Ge	rman)		
V (2) +	+ S (2)					
module a) writ (super	is creditat tten exa rvision (	ble for bonus)	nutes) and b) present		ot every semester, information on whether inutes) with practical examinatior	
	tion of					
			_			
Additi	onal inf	ormation				
Workl	oad					
150 h						
-	ing cyc	e				
Referr	ed to in	<b>LPO I</b> (examination regulatio	ns for teaching-degree progra	mmes)		
§ 36   § 38						
Modu	le appe	ars in				
First s First s First s fungso First s	tate exa tate exa tate exa ordnung tate exa	mination for the teachir mination for the teachir mination for the teachir sversion 2015))	g degree Sonderpäda g degree Mittelschule g degree Mittelschule	gogik Didactics in C Didactics in Chemis Didactics in Chemis	stry (Primary School) (2015) hemistry (Middle School) (2015) stry (Middle School) (2015) stry (Middle School) (2020 (Prü- hemistry (Middle School) (2020	

Module	e title				Abbreviation
Teaching Chemical Practice for Elementary and Secondary			ntary and Secondary	School	08-FD2-LAGM-152-m01
Module coordinator				Module offered by	
holder of the Professorship of Didactics of Chemistry			s of Chemistry	Institute of I	norganic Chemistry
ECTS	Meth	od of grading	Only after succ. com	• • •	
5	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
2 seme	ester	unknown			
Conten	Its				
No info	ormatio	n on contents available.			
Intend	ed lear	ning outcomes			
No info	ormatio	n on learning outcomes a	available.		
Course	<b>S</b> (type, r	number of weekly contact hours, l	anguage — if other than Ger	man)	
S (2) +	S (2)				
		<b>Sessment</b> (type, scope, langua Ile for bonus)	ge — if other than German, e	examination offere	ed — if not every semester, information on whether
		n with practical examination seessment: German and,		ites) and b) p	resentation (approx. 20 minutes)
Allocat	ion of	olaces			
Additio	onal inf	ormation			
Worklo	ad				
150 h					
Teachi	ng cycl	e			
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	
§ 38   N § 42   N		d § 36   Nr. 7			
Module	e appea	ars in			
First sta First sta First sta First sta First sta First sta	ate exa ate exa ate exa ate exa ate exa ate exa	mination for the teaching mination for the teaching mination for the teaching mination for the teaching	g degree Grundschule g degree Sonderpäda g degree Mittelschule g degree Mittelschule g degree Mittelschule	Didactics in gogik Didacti Chemistry (2 Didactics in Chemistry (2	Chemistry (Primary School) (2015) cs in Chemistry (Middle School) (2015)



### **Compulsory Electives**

(5 ECTS credits)

Module	e title				Abbreviation
Designing Chemistry Classes for Elementary and Secondary Scl				y School	08-FD3-DF-LAGM-152-m01
Module coordinator				Module offered by	
holder of the Professorship of Didactics of Chemistry			s of Chemistry	Institute of Inorgani	ic Chemistry
			Only after succ. con		
5	1	rical grade		· · · ·	
Duratio	on	Module level	Other prerequisites		
2 seme	ester	unknown			
Conten	nts				
No info	ormatio	n on contents available.			
Intend	ed lear	ning outcomes			
No info	ormatio	n on learning outcomes a	vailable.		
Course	<b>S</b> (type, r	umber of weekly contact hours, l	anguage — if other than Ger	rman)	
S (2) +	S (2)				
module is a) writt	s creditab ten exai	s <b>essment</b> (type, scope, langua le for bonus) mination (approx. 45 min ssessment: German and,	utes) and b) presenta		nt every semester, information on whether
Allocat	tion of p	olaces			
Additio	onal inf	ormation			
Worklo	ad				
150 h					
Teachi	ng cycl	e			
Referre	ed to in	LPO I (examination regulations	s for teaching-degree progra	mmes)	
§ 36   N § 38   N	-				
Module	e appea	irs in			
First st First st First st fungso First st	ate exa ate exa ate exa Irdnung ate exa	mination for the teaching mination for the teaching mination for the teaching sversion 2015))	g degree Sonderpäda g degree Mittelschule g degree Mittelschule	gogik Didactics in Cł Didactics in Chemis Didactics in Chemis	stry (Primary School) (2015) nemistry (Middle School) (2015) try (Middle School) (2015) try (Middle School) (2020 (Prü- nemistry (Middle School) (2020



### 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 Chemistry at the German Grundschule** (ECTS credits)

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

LA Grundschulen Didactics in Chemistry (Primary School) (2015)

Module title					Abbreviation	
Principles of Inorganic Chemistry				08-AC1-152-m01		
Module coordinator			Module offered by			
lecturer of lecture "Experimentalchemie" (Experimental Chemistry)			Institute of Inorgan	ic Chemistry		
ECTS         Method of grading         Only after succ. compl. of module(s)						
8	nume	rical grade				
Duratio	on	Module level	Other prerequisites	5		
1 seme	ster	undergraduate				
rial and	odule p d partic tion, th	rovides an overview of le level, metals, acid-b ne module introduces fu	ase reactions, the peri	odic table, chemical	equilibrium and com	nplexometry.
Intend	ed lear	ning outcomes				
cient in actions	n basic s using know h	nderstands the principl models of the structure typical chemical formu ow the most important	of matter and can des la language and interp	scribe them properly. ret them by identifyi	He/she can depict on the type of reaction of the type	chemical re- on. The stu-
Course	<b>S</b> (type, 1	number of weekly contact hour	s, language — if other than Ge	rman)		
V (4) +	V (2)					
a) writt b) oral c) oral d) log (	s creditat en exa examir examir (approx	sessment (type, scope, lang ole for bonus) mination (approx. 90 to nation of one candidate nation in groups of up to x. 20 pages) or on (approx. 30 minutes)	9 180 minutes) or 9 each (20 to 30 minute 9 3 candidates (approx	es) or		ion on whether
		issessment: German an				
Allocat	ion of	places				
Additio	onal inf	ormation				
	-	2 para. 2 sentence 2 A nnex 2 to the APOLmCh	•	n with No. I 2nd lette	er a) of annex 1 to the	e APOLmCh
Worklo	ad					
240 h						
Teachi	ng cycl	e				
		LPO I (examination regulation	ons for teaching-degree progra	ammes)		
§ 42   N § 62   N		d § 22 II Nr. 1 h)				
Module	e appea	ars in				
Bachel First sta	or's de ate exa	gree (1 major) Biochem gree (1 major) Chemistr mination for the teachi mination for the teachi	y (2015) ng degree Grundschul	• -	stry (Primary School)	(2015)
LA Grundso School) (20		lactics in Chemistry (Primary		enerated 18-Apr-2025 • exam undschulen (Didaktikfach) Ch	-	page 12 / 33



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

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

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

First state examination for the teaching degree Mittelschule Didactics in Chemistry (Middle School) (2015) Bachelor's degree (1 major) Biochemistry (2017)

Dachelor's degree (1 major) Biochemistry (2017)

Bachelor's degree (1 major) Chemistry (2017)

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

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

Bachelor's degree (1 major) Food Chemistry (2021)

Bachelor's degree (1 major) Biochemistry (2022)

Bachelor's degree (1 major) Food Chemistry (2025)

Organi	Module title				Abbreviation
Organic Chemistry 1 (teaching degree for secondary schoo				ls)	08-OC1-LAGMR-152-m01
Module coordinator				Module offered by	
holder of the Professorship of Organic Chemistry		Chemistry	Institute of Organic	Chemistry	
		Only after succ. con	npl. of module(s)		
6 numerical grade					
Duratio	on	Module level	Other prerequisites	i	
1 seme	ester	undergraduate			
Conten	nts				
the boi organio	nding s c comp	ituation of carbon and ir	ntroduces students to discusses the fundar	the nomenclature o nental principles of s	of organic chemistry. It examines f simple and moderately comple stereochemistry, substitution, ad
Intend	ed lear	ning outcomes			
of nom lecules that pu synthe	enclatu s. They urpose, ses.	ure to determine simple s are able to describe and they can analyse and ca	substance names. Stu formulate some of th tegorise the characte	udents are able to an e most important rea ristic reaction condit	re able to use different systems alyse the stereochemistry of mo- actions in organic chemistry. For ions and can use them for simple
		number of weekly contact hours,	language — if other than Ger	rman)	
V (3) +		· · · · · · · · · · · · · · · · · · ·			
		S <b>essment</b> (type, scope, langua Ale for bonus)	age — if other than German,	examination offered — if no	ot every semester, information on whether
b) oral c) oral d) log ( e) pres	examir examin (approx entatio	mination (approx. 90 to nation of one candidate e nation in groups of up to a 20 pages) or n (approx. 30 minutes)	each (20 to 30 minute	•	didate) or
Langua	age of a		l/or English		
Allocat		ssessment: German and	l/or English		
Allocat	tion of <sub>l</sub>	ssessment: German and	l/or English		
Allocat  Additic	tion of ponal inf	ssessment: German and places	l/or English		
Allocat  Additic  Worklo	tion of ponal inf	ssessment: German and places	l/or English		
Allocat  Additic  Worklo 180 h	tion of ponal inf	ssessment: German and places ormation	l/or English		
Allocat  Additic  Worklo 180 h	tion of ponal inf	ssessment: German and places ormation	l/or English		
Allocat  Additic  Worklo 180 h Teachi 	tion of p pnal inf pad	ssessment: German and places ormation e		nmmes)	
Allocat  Additio  Worklo 180 h Teachi  Referre	tion of p onal inf oad ng cycl ed to in	ssessment: German and places ormation e LPOI (examination regulation		ammes)	
Allocat  Additio  Worklo 180 h Teachi  Referre	ponal inf pad ng cycl ed to in Nr. 2 an	ssessment: German and places ormation e LPOI (examination regulation d § 22 II Nr. 1 h)		ammes)	
Allocat  Additic  Worklo 180 h Teachi  Referre § 42   N Modulo First st First st First st First st First st First st First st	tion of p onal inf oad ng cycl ed to in Vr. 2 an e appea ate exa ate exa ate exa ate exa ate exa ate exa ate exa ate exa ate exa	ssessment: German and places ormation e LPOI (examination regulation d § 22 II Nr. 1 h) ars in mination for the teachin mination for the teachin	g degree Grundschule g degree Grundschule g degree Grundschule g degree Realschule ( g degree Sonderpäda g degree Mittelschule g degree Mittelschule	e Chemistry (2015) e Didactics in Chemis Chemistry (2015) gogik Didactics in Cl e Chemistry (2015) e Didactics in Chemis	stry (Primary School) (2015) hemistry (Middle School) (2015) stry (Middle School) (2015) rüfungsordnungsversion 2015))

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

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

Module title				Abbreviation	
Organic Chemistry 2 08-0C2-VL-152-m01					08-0C2-VL-152-m01
Module	e coord	inator		Module offered by	
holder of the Chair of Physically Organic Chemistry		ic Chemistry	Institute of Organic	Chemistry	
ECTS Method of grading Only after succ. compl. of module(s)					
6 numerical grade					
Duration Module level Other prerequisites					
1 seme	1 semester undergraduate				
Conten	ts				
the exa on reac	mple o	f carbonyl compounds,	it extends the student	s' knowledge of sub	fic reactions of aromatics. Using stitution, elimination and additi- ation and reduction reactions as
Intende	ed leari	ning outcomes			
bonyl c	ompou n plan	nds. They are able to de and formulate multi-stag	scribe specific reaction	ons of carbonyls and	e the varying reactivity of car- aromatics. For that purpose, anisms and can transfer them to
Course	<b>S</b> (type, n	umber of weekly contact hours,	language — if other than Ger	rman)	
V (3) +	Ü (1)				
		s <b>essment</b> (type, scope, langu le for bonus)	age — if other than German, o	examination offered — if no	t every semester, information on whether
b) oral c) oral ( d) log ( e) prese Langua	examin examin approx entatio ge of a	nination (approx. 90 to ation of one candidate of ation in groups of up to . 20 pages) or n (approx. 30 minutes) ssessment: German and	each (20 to 30 minute 3 candidates (approx	-	didate) or
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
	-	2 para. 2 sentence 2 AF nnex 2 to the APOLmCh	OLmCh in conjunction	n with No. I 2nd lette	r b) of annex 1 to the APOLmCh
Worklo	ad				
180 h					
Teachi	ng cycl	9	_		
Referre	d to in	LPO I (examination regulation	ns for teaching-degree progra	immes)	
§ 42   N § 62   N		d § 22 ll Nr. 1 h)			
Module	e appea	irs in			
First sta First sta First sta First sta First sta	ate exa ate exa ate exa ate exa ate exa ate exa	mination for the teachin mination for the teachin mination for the teachin	g degree Grundschule g degree Grundschule g degree Realschule C g degree Gymnasium g degree Sonderpäda	e Didactics in Chemis Chemistry (2015) Chemistry (2015) gogik Didactics in Ch	stry (Primary School) (2015) nemistry (Middle School) (2015)
LA Grundsc School) (20		actics in Chemistry (Primary		enerated 18-Apr-2025 • exam undschulen (Didaktikfach) Ch	



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

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

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

Bachelor's degree (1 major) Food Chemistry (2021) Bachelor's degree (1 major) Food Chemistry (2025)

	e title				Abbreviation
Physical Chemistry (teaching degree for secondary school				5)	08-PC-LAGMR-152-m01
Module coordinator				Module offered by	
für Stu	dierenc	ture "Thermodynamik, K le der Biologie, Lebensm emie GHR"		Institute of Physica	l and Theoretical Chemistry
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
6	nume	rical grade			
Duratio	on	Module level	Other prerequisites	i	
1 seme	ster	undergraduate			
Conten	its				
This m	odule d	liscusses the fundament	al principles of therm	odynamics, kinetics	and electrochemistry.
Intend	ed lear	ning outcomes			
		e become familiar with th re able to understand ar			nics, kinetics and electroche- re and engineering.
Course	<b>S</b> (type, r	number of weekly contact hours,	language — if other than Gei	rman)	
V (2) +	Ü (1) +	V (1) + Ü (1)			
		<b>Sessment</b> (type, scope, languation languation)	age — if other than German,	examination offered — if no	ot every semester, information on whethe
c) oral d) log (	examin (approx	nation of one candidate e ation in groups of up to . 20 pages) or		-	didate) or
c) oral d) log ( e) pres Langua	examin (approx entatio age of a	ation in groups of up to 20 pages) or n (approx. 30 minutes) ssessment: German and	each (20 to 30 minute 3 candidates (approx	-	didate) or
c) oral d) log ( e) pres	examin (approx entatio age of a	ation in groups of up to 20 pages) or n (approx. 30 minutes) ssessment: German and	each (20 to 30 minute 3 candidates (approx	-	didate) or
c) oral d) log ( e) pres Langua Allocat	examin (approx entatio age of a <b>tion of j</b>	ation in groups of up to a 20 pages) or n (approx. 30 minutes) ssessment: German and <b>places</b>	each (20 to 30 minute 3 candidates (approx	-	didate) or
c) oral d) log ( e) pres Langua Allocat	examin (approx entatio age of a <b>tion of j</b>	ation in groups of up to 20 pages) or n (approx. 30 minutes) ssessment: German and	each (20 to 30 minute 3 candidates (approx	-	didate) or
c) oral d) log ( e) pres Langua Allocat  Additic	examin (approx entatio age of a <b>ion of j</b>	ation in groups of up to a 20 pages) or n (approx. 30 minutes) ssessment: German and <b>places</b>	each (20 to 30 minute 3 candidates (approx	-	didate) or
c) oral d) log ( e) pres Langua Allocat  Additic  Worklo	examin (approx entatio age of a <b>ion of j</b>	ation in groups of up to a 20 pages) or n (approx. 30 minutes) ssessment: German and <b>places</b>	each (20 to 30 minute 3 candidates (approx	-	didate) or
c) oral d) log ( e) pres Langua Allocat  Additic	examin (approx entatio age of a <b>cion of f</b>	ation in groups of up to 20 pages) or .n (approx. 30 minutes) .ssessment: German and places formation	each (20 to 30 minute 3 candidates (approx	-	didate) or
c) oral d) log ( e) pres Langua Allocat  Additic  Worklo 180 h	examin (approx entatio age of a <b>cion of f</b>	ation in groups of up to 20 pages) or .n (approx. 30 minutes) .ssessment: German and places formation	each (20 to 30 minute 3 candidates (approx	-	didate) or
c) oral d) log ( e) pres Langua Allocat  Worklo 180 h Teachi 	examin (approx entatio age of a <b>ion of p</b> onal inf pad	ation in groups of up to 20 pages) or .n (approx. 30 minutes) .ssessment: German and places formation	each (20 to 30 minute 3 candidates (approx /or English	. 15 minutes per can	didate) or
c) oral d) log ( e) pres Langua Allocat  Additio  180 h Teachi  Referre	examin (approx entatio age of a tion of p onal inf onal inf oad	ation in groups of up to 20 pages) or In (approx. 30 minutes) Issessment: German and places formation e	each (20 to 30 minute 3 candidates (approx //or English	. 15 minutes per can	didate) or
c) oral d) log ( e) pres Langua Allocat  Additio  180 h Teachi  Referre	examin (approx entatio age of a ion of p onal inf onal inf oad ng cycl ed to in	e LPOI (examination regulation d § 22 II Nr. 1 h)	each (20 to 30 minute 3 candidates (approx //or English	. 15 minutes per can	didate) or
c) oral d) log ( e) pres Langua Allocat  Worklo 180 h Teachi  8 42 IN Modulo First st	examin (approx entatio age of a <b>ion of p</b> onal inf oad ad ed to in Vr. 1 an e appea ate exa	e LPOI (examination regulation d § 22 II Nr. 1 h) ars in	each (20 to 30 minute 3 candidates (approx //or English 	. 15 minutes per can	didate) or



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

Module	title				Abbreviation	
Toxicology and legal studies				03-TR-152-m01		
Module coordinator			Modulo offered by	<u> </u>		
			Module offered by			
lecturer of lecture "Toxikologie und Rechtskunde"				Faculty of Medicine		
ECTS		od of grading	Only after succ. compl. of module(s)			
3		rical grade				
Duration         Module level         Other prerequisites						
1 seme	ster	undergraduate	-			
Conten	ts					
Basics toxicolo	-	l regulations for chemist	s (handling and trans	portation of hazardo	ous materials), funda	amentals of
Intende	ed lear	ning outcomes				
		master the basics of lega s the fundamentals of to		nists (handling and t	ransport of hazardo	us substan-
Course	<b>S</b> (type, r	number of weekly contact hours,	language — if other than Ger	man)		
V (1) + \	/ (1)					
		<b>eessment</b> (type, scope, langua le for bonus)	age — if other than German, o	examination offered — if no	ot every semester, informat	ion on whether
written	exami	nation (approx. 90 minut	tes)			
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
		2 para. 2 sentence 2 AP he APOLmCh and No. 5 a			er g) and i) and No. I	l 1st letter d)
Worklo	ad					
90 h			_			
Teachir	ıg cycl	e				
Referre	d to in	LPO I (examination regulation	is for teaching-degree progra	mmes)		
§ 22      § 22      § 22	Nr. 2 f)					
Module	e appea	ars in				
Bachel	or's de	gree (1 major) Biochemis	stry (2015)			
		gree (1 major) Chemistry				
		gree (1 major) Food Cher	, ,			
		mination for the teachin		• -		
		mination for the teaching			stry (Primary School)	(2015)
		mination for the teachin mination for the teachin				
		mination for the teaching	,	• -	nemistry (Middle Sch	100l) (2015)
		mination for the teaching	,			
		mination for the teachin		• -	stry (Middle School)	(2015)
		ee (1 major) Chemistry (2				
		gree (1 major) Food Cher				
Bachelo	or's de	gree (1 major) Biochemis	stry (2017)			
		actics in Chemistry (Primary		enerated 18-Apr-2025 • exam	-	page 20 / 33
School) (20	15)		cord Lehramt Gru	undschulen (Didaktikfach) Ch	nemie - 2015	ļ

Bachelor's degree (1 major) Chemistry (2017)

Master's degree (1 major) Chemistry (2018)

Bachelor's degree (1 major) Food Chemistry (2019)

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

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

Bachelor's degree (1 major) Food Chemistry (2021)

Bachelor's degree (1 major) Biochemistry (2022)

Master's degree (1 major) Chemistry (2024)

Bachelor's degree (1 major) Food Chemistry (2025)

Module title     A			Abbreviation			
Chemi	Chemistry SchoolLabs 08-FD-LLL-152-m01					
Modul	e coord	inator		Module offered by		
holder of the Professorship of Didactics of Chemistry		ics of Chemistry	Institute of Inorgani	ic Chemistry		
ECTS Method of grading Only after succ. con						
2	1	successfully completed				
	Duration     Module level     Other prerequisites					
1 seme		unknown				
Contents						
No info	ormatio	n on contents available	2.			
Intend	ed learı	ning outcomes				
No info	ormatio	n on learning outcome	s available.			
Course	<b>S</b> (type, n	number of weekly contact hour	s, language — if other than Ge	rman)		
P (3)						
	d of ass	sessment (type, scope, lang	uage — if other than German	examination offered — if no	t every comector informati	ion on whether
		le for bonus)	lage in other than German,		cevery semester, mormati	on on whether
practic	al assig	gnment (successful sup	pervision of 2 sessions	in learn-teach-lab, a	pprox. 4 to 6 hours e	ach)
		ssessment: German ar		in teach teach tab, a		achy
	tion of p					
		ormation				
Additio						
Worklo	ad					
60 h						
Teachi	ng cycl	e				
Referre	ed to in	LPO I (examination regulati	ons for teaching-degree progra	ammes)		
§ 22						
§ 22	-					
§ 22	Nr. 3 f)					
Modul	e appea	nrs in				
First st	ate exa	mination for the teachi	ng degree Grundschule	e English (2009)		
First st	ate exa	mination for the teachi	ng degree Grundschule	e Biology (2009)		
First st	ate exa	mination for the teachi	ng degree Grundschule	e Chemistry (2009)		
1		mination for the teachi				
		mination for the teachi		•.	/ (2009)	
		mination for the teachi		-		
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First state examination for the teaching degree Grundschule History (2015)						
		mination for the teachi			•	
		mination for the teachi		-	))	
1		mination for the teachi		-		
1		mination for the teachi				
		mination for the teachi			•	
		mination for the teachi mination for the teachi			009)	
LA Grunds School) (20		actics in Chemistry (Primary		enerated 18-Apr-2025 • exam undschulen (Didaktikfach) Ch	_	page 22 / 33

Module Catalogue for the Subject Didactics in Chemistry (Primary School) LA Grundschulen

First state examination for the teaching degree Hauptschule Biology (2009) First state examination for the teaching degree Hauptschule Chemistry (2009) First state examination for the teaching degree Hauptschule Geography (2009) First state examination for the teaching degree Hauptschule Protestant Theology (2009) First state examination for the teaching degree Hauptschule German (2009) First state examination for the teaching degree Hauptschule History (2009) First state examination for the teaching degree Hauptschule Catholic Theology (2009) First state examination for the teaching degree Hauptschule Mathematics (2009) First state examination for the teaching degree Hauptschule Music (2009) First state examination for the teaching degree Hauptschule Physics (2009) First state examination for the teaching degree Hauptschule Social Science (2009) First state examination for the teaching degree Hauptschule Science of Sport (2009) First state examination for the teaching degree Realschule English (2009) First state examination for the teaching degree Realschule Biology (2009) First state examination for the teaching degree Realschule Chemistry (2009) First state examination for the teaching degree Realschule Geography (2009) First state examination for the teaching degree Realschule Protestant Theology (2009) First state examination for the teaching degree Realschule French Studies (2009) First state examination for the teaching degree Realschule German (2009) First state examination for the teaching degree Realschule History (2009) First state examination for the teaching degree Realschule Computer Science (2012) First state examination for the teaching degree Realschule Catholic Theology (2009) First state examination for the teaching degree Realschule Mathematics (2009) First state examination for the teaching degree Realschule Music (2009) First state examination for the teaching degree Realschule Physics (2009) First state examination for the teaching degree Realschule Science of Sport (2009) First state examination for the teaching degree Gymnasium English (2009) First state examination for the teaching degree Gymnasium Biology (2009) First state examination for the teaching degree Gymnasium Chemistry (2009) First state examination for the teaching degree Gymnasium Geography (2009) First state examination for the teaching degree Gymnasium French Studies (2009) First state examination for the teaching degree Gymnasium German (2009) First state examination for the teaching degree Gymnasium History (2009) First state examination for the teaching degree Gymnasium Greek Philology (2009) First state examination for the teaching degree Gymnasium Computer Science (2009) First state examination for the teaching degree Gymnasium Italian Studies (2009) First state examination for the teaching degree Gymnasium Catholic Theology (2009) First state examination for the teaching degree Gymnasium Latin Philology (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 Gymnasium Music (2009) First state examination for the teaching degree Gymnasium Physics (2009) First state examination for the teaching degree Gymnasium Russian (2009) First state examination for the teaching degree Gymnasium Social Science (2009) First state examination for the teaching degree Gymnasium Spanish Studies (2009) First state examination for the teaching degree Gymnasium Science of Sport (2009) First state examination for the teaching degree Gymnasium Music Education, Advanced Studies (2009) First state examination for the teaching degree Sonderpädagogik Pedagogy of Secondary Education (2009) First state examination for the teaching degree Sonderpädagogik Pedagogy of Primary Education (2009) First state examination for the teaching degree Sonderpädagogik Teaching at the German Mittelschule (2013) First state examination for the teaching degree Mittelschule English (2013) First state examination for the teaching degree Mittelschule Biology (2013) First state examination for the teaching degree Mittelschule Chemistry (2013) LA Grundschulen Didactics in Chemistry (Primary JMU Würzburg • generated 18-Apr-2025 • exam. reg. data repage 23 / 33 School) (2015) cord Lehramt Grundschulen (Didaktikfach) Chemie - 2015

First state examination for the teaching degree Mittelschule Geography (2013) First state examination for the teaching degree Mittelschule Protestant Theology (2013) First state examination for the teaching degree Mittelschule German (2013) First state examination for the teaching degree Mittelschule History (2013) First state examination for the teaching degree Mittelschule Catholic Theology (2013) First state examination for the teaching degree Mittelschule Mathematics (2013) First state examination for the teaching degree Mittelschule Physics (2013) First state examination for the teaching degree Mittelschule Social Science (2013) First state examination for the teaching degree Mittelschule Science of Sport (2013) First state examination for the teaching degree Grundschule English (2015) First state examination for the teaching degree Grundschule Biology (2015) First state examination for the teaching degree Grundschule Chemistry (2015) First state examination for the teaching degree Grundschule Geography (2015) First state examination for the teaching degree Grundschule German (2015) First state examination for the teaching degree Grundschule Catholic Theology (2015) First state examination for the teaching degree Grundschule Mathematics (2015) First state examination for the teaching degree Grundschule Pedagogy of Primary Education (2015) First state examination for the teaching degree Grundschule Physics (2015) First state examination for the teaching degree Grundschule Social Science (2015) First state examination for the teaching degree Grundschule Didactics in English (Primary School) (2015) First state examination for the teaching degree Grundschule Didactics in Biology (Primary School) (2015) First state examination for the teaching degree Grundschule Didactics in Chemistry (Primary School) (2015) First state examination for the teaching degree Grundschule Didactics in Geography (Primary School) (2015) First state examination for the teaching degree Grundschule Didactics in German (Primary School) (2015) First state examination for the teaching degree Grundschule Didactics in History (Primary School) (2015) First state examination for the teaching degree Grundschule Didactics in Catholic Theology (Primary School) (2015)First state examination for the teaching degree Grundschule Art Education in Primary School (2015) First state examination for the teaching degree Grundschule Didactics in Science of Sport (Primary School) (2015) First state examination for the teaching degree Grundschule Didactics in Mathematics (Primary School) (2015) First state examination for the teaching degree Grundschule Music Education in Primary School (2015) First state examination for the teaching degree Grundschule Didactics in Physics (Primary School) (2015) First state examination for the teaching degree Grundschule Didactics in Social Science (Primary School) (2015) First state examination for the teaching degree Grundschule Science of Sport (2015) First state examination for the teaching degree Realschule English (2015) First state examination for the teaching degree Realschule Biology (2015) First state examination for the teaching degree Realschule Chemistry (2015)

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

First state examination for the teaching degree Realschule Protestant Theology (2015)

First state examination for the teaching degree Realschule French Studies (2015)

First state examination for the teaching degree Realschule German (2015) First state examination for the teaching degree Realschule History (2015) First state examination for the teaching degree Realschule Computer Science (2015)

First state examination for the teaching degree Realschule Catholic Theology (2015)

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

First state examination for the teaching degree Realschule Physics (2015) First state examination for the teaching degree Realschule Science of Sport (2015)

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

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

First state examination for the teaching degree Gymnasium Chemistry (2015) First state examination for the teaching degree Gymnasium Geography (2015)

First state examination for the teaching degree Gymnasium French Studies (2015)

First state examination for the teaching degree Gymnasium German (2015) LA Grundschulen Didactics in Chemistry (Primary School) (2015)

First state examination for the teaching degree Gymnasium History (2015) First state examination for the teaching degree Gymnasium Greek Philology (2015) First state examination for the teaching degree Gymnasium Computer Science (2015) First state examination for the teaching degree Gymnasium Italian Studies (2015) First state examination for the teaching degree Gymnasium Catholic Theology (2015) First state examination for the teaching degree Gymnasium Latin Philology (2015) First state examination for the teaching degree Gymnasium Mathematics (2015) First state examination for the teaching degree Gymnasium Physics (2015) First state examination for the teaching degree Gymnasium Russian (2015) First state examination for the teaching degree Gymnasium Social Science (2015) First state examination for the teaching degree Gymnasium Spanish Studies (2015) First state examination for the teaching degree Gymnasium Science of Sport (2015) First state examination for the teaching degree Sonderpädagogik Pedagogy of Primary Education (2015) First state examination for the teaching degree Sonderpädagogik Didactics in German (Primary School) (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Catholic Theology (Primary School) (2015) First state examination for the teaching degree Sonderpädagogik Art Education in Primary School (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Science of Sport (Primary School) (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Mathematics (Primary School) (2015) First state examination for the teaching degree Sonderpädagogik Music Education in Primary School (2015) First state examination for the teaching degree Sonderpädagogik Didactics in English (Middle School) (2015) First state examination for the teaching degree Sonderpädagogik Ergonomics (Teaching at the German Mittelschule) (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Biology (Middle School) (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Chemistry (Middle School) (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Geography (Middle School) (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Protestant Theology (Middle School) (2015) First state examination for the teaching degree Sonderpädagogik Didactics in German (Middle School) (2015) First state examination for the teaching degree Sonderpädagogik Didactics in History (Middle School) (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Catholic Theology (Middle School) (2015) First state examination for the teaching degree Sonderpädagogik Art Education in Middle School (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Science of Sport (Middle School) (2015)

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

First state examination for the teaching degree Sonderpädagogik Music Education in Middle School (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Physics (Middle School) (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Social Science (Middle School) (2015)

First state examination for the teaching degree Sonderpädagogik Teaching at the German Mittelschule (2015) First state examination for the teaching degree Mittelschule English (2015)

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

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

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

First state examination for the teaching degree Mittelschule Protestant Theology (2015)

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

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

First state examination for the teaching degree Mittelschule Catholic Theology (2015)

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

LA Grundschulen Didactics in Chemistry (Primary	JMU Würzburg • generated 18-Apr-2025 • exam. reg. data re-	page 25 / 33
School) (2015)	cord Lehramt Grundschulen (Didaktikfach) Chemie - 2015	

First state examination for the teaching degree Mittelschule Physics (2015) First state examination for the teaching degree Mittelschule Social Science (2015) First state examination for the teaching degree Mittelschule Didactics in English (Middle School) (2015) First state examination for the teaching degree Mittelschule Ergonomics (Teaching at the German Mittelschule) (2015) First state examination for the teaching degree Mittelschule Didactics in Biology (Middle School) (2015) First state examination for the teaching degree Mittelschule Didactics in Chemistry (Middle School) (2015) First state examination for the teaching degree Mittelschule Didactics in Geography (Middle School) (2015) First state examination for the teaching degree Mittelschule Didactics in Protestant Theology (Middle School) (2015) First state examination for the teaching degree Mittelschule Didactics in German (Middle School) (2015) First state examination for the teaching degree Mittelschule Didactics in History (Middle School) (2015) First state examination for the teaching degree Mittelschule Didactics in Catholic Theology (Middle School) (2015) First state examination for the teaching degree Mittelschule Art Education in Middle School (2015) First state examination for the teaching degree Mittelschule Didactics in Science of Sport (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 Music Education in Middle School (2015) First state examination for the teaching degree Mittelschule Didactics in Physics (Middle School) (2015) First state examination for the teaching degree Mittelschule Didactics in Social Science (Middle School) (2015) First state examination for the teaching degree Mittelschule Science of Sport (2015) First state examination for the teaching degree Mittelschule Teaching at the German Mittelschule (2015) First state examination for the teaching degree Grundschule Protestant Theology (2015) First state examination for the teaching degree Grundschule Music (2015) First state examination for the teaching degree Grundschule Didactics in Protestant Theology (Primary School) (2015) First state examination for the teaching degree Realschule Music (2015) First state examination for the teaching degree Gymnasium Music (2015) First state examination for the teaching degree Gymnasium Music Education, Advanced Studies (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Protestant Theology (Primary School) (2015) First state examination for the teaching degree Mittelschule Music (2015) First state examination for the teaching degree Gymnasium French Studies (2016) First state examination for the teaching degree Gymnasium Italian Studies (2016) First state examination for the teaching degree Gymnasium Spanish Studies (2016) First state examination for the teaching degree Realschule French Studies (2016) First state examination for the teaching degree Grundschule English (2016) First state examination for the teaching degree Grundschule Didactics in English (Primary School) (2016) First state examination for the teaching degree Realschule English (2016) First state examination for the teaching degree Gymnasium English (2016) First state examination for the teaching degree Mittelschule English (2016) First state examination for the teaching degree Mittelschule Didactics in English (Middle School) (2016) First state examination for the teaching degree Sonderpädagogik Didactics in English (Middle School) (2016) First state examination for the teaching degree Gymnasium Greek Philology (2018) First state examination for the teaching degree Grundschule Physics (2018) First state examination for the teaching degree Grundschule Didactics in Physics (Primary School) (2018) First state examination for the teaching degree Realschule Physics (2018) First state examination for the teaching degree Gymnasium Physics (2018) First state examination for the teaching degree Mittelschule Physics (2018) First state examination for the teaching degree Sonderpädagogik Didactics in Physics (Middle School) (2018) First state examination for the teaching degree Mittelschule Didactics in Physics (Middle School) (2018) First state examination for the teaching degree Gymnasium Mathematics (2019) First state examination for the teaching degree Mittelschule Biology (2020 (Prüfungsordnungsversion 2015))

LA Grundschulen Didactics in Chemistry (Primary	JMU Würzburg • generated 18-Apr-2025 • exam. reg. data re-	page 26 / 33
School) (2015)	cord Lehramt Grundschulen (Didaktikfach) Chemie - 2015	

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

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

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

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

First state examination for the teaching degree Mittelschule English (2020 (Prüfungsordnungsversion 2016)) First state examination for the teaching degree Mittelschule Didactics in English (Middle School) (2020 (Prüfungsordnungsversion 2016))

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

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

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

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

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

First state examination for the teaching degree Mittelschule Didactics in Catholic Theology (Middle School) (2020 (Prüfungsordnungsversion 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 Mittelschule Art Education in Middle School (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Mittelschule Science of Sport (2020 (Prüfungsordnungsversion 2015))

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

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

First state examination for the teaching degree Mittelschule Teaching at the German Mittelschule (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Didactics in English (Middle School) (2020 (Prüfungsordnungsversion 2016))

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

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

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

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

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

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

First state examination for the teaching degree Sonderpädagogik Didactics in Science of Sport (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 Music Education in Middle School (2020 (Prüfungsordnungsversion 2015))

First state examination for the teaching degree Sonderpädagogik Teaching at the German Mittelschule (2020 (Prüfungsordnungsversion 2015))

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

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

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

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

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

First state examination for the teaching degree Sonderpädagogik Pedagogy of Primary Education (2020 (Prüfungsordnungsversion 2015))

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

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

First state examination for the teaching degree Grundschule Didactics in Physics (Primary School) (2020) First state examination for the teaching degree Grundschule Physics (2020)

First state examination for the teaching degree Gymnasium Physics (2020)

First state examination for the teaching degree Realschule Physics (2020)

First state examination for the teaching degree Sonderpädagogik Didactics in Physics (Middle School) (2020) First state examination for the teaching degree Mittelschule Didactics in Physics (Middle School) (2020) First state examination for the teaching degree Mittelschule Physics (2020)

First state examination for the teaching degree Grundschule Political and Social Studies (2020) First state examination for the teaching degree Grundschule Didactics in Political and Social Studies (Primary School) (2020)

First state examination for the teaching degree Sonderpädagogik MS-Didaktik Career and Economics (2020) First state examination for the teaching degree Sonderpädagogik Didactics in Political and Social Studies (Secondary School) (2020)

First state examination for the teaching degree Mittelschule MS-Didaktik Career and Economics (2020) First state examination for the teaching degree Mittelschule Didactics in Political and Social Studies (Secondary School) (2020)

First state examination for the teaching degree Mittelschule Political and Social Studies (2020)

First state examination for the teaching degree Gymnasium Political and Social Studies (2020)

First state examination for the teaching degree Grundschule History (2021)

First state examination for the teaching degree Gymnasium History (2021)

First state examination for the teaching degree Realschule History (2021)

First state examination for the teaching degree Mittelschule History (2021)

First state examination for the teaching degree Grundschule Pedagogy of Primary Education (2021)

First state examination for the teaching degree Gymnasium English (2021)

First state examination for the teaching degree Gymnasium Philosophy and Ethics (2021)

First state examination for the teaching degree Sonderpädagogik Pedagogy of Primary Education (2021)

LA Grundschulen Didactics in Chemistry (Primary	JMU Würzburg • generated 18-Apr-2025 • exam. reg. data re-	page 28 / 33
School) (2015)	cord Lehramt Grundschulen (Didaktikfach) Chemie - 2015	

Module Catalogue for the Subject Didactics in Chemistry (Primary School) LA Grundschulen

First state examination for the teaching degree Gymnasium Philosophy and Ethics (2022) First state examination for the teaching degree Gymnasium Russian (2023) First state examination for the teaching degree Gymnasium Mathematics (2023) First state examination for the teaching degree Gymnasium English (2023) First state examination for the teaching degree Realschule English (2023) First state examination for the teaching degree Grundschule English (2023) First state examination for the teaching degree Grundschule Didactics in English (Primary School) (2023) First state examination for the teaching degree Mittelschule English (2023) First state examination for the teaching degree Mittelschule Didactics in English (Middle School) (2023) First state examination for the teaching degree Sonderpädagogik Didactics in English (Middle School) (2023) First state examination for the teaching degree Gymnasium Geography (2023) First state examination for the teaching degree Realschule Geography (2023) First state examination for the teaching degree Grundschule Geography (2023) First state examination for the teaching degree Mittelschule Geography (2023) First state examination for the teaching degree Grundschule German (2024) First state examination for the teaching degree Gymnasium German (2024) First state examination for the teaching degree Realschule German (2024) First state examination for the teaching degree Sonderpädagogik Didactics in German (Middle School) (2024) First state examination for the teaching degree Mittelschule Didactics in German (Middle School) (2024) First state examination for the teaching degree Grundschule Didactics in German (Primary School) (2024) First state examination for the teaching degree Sonderpädagogik Didactics in German (Primary School) (2024) First state examination for the teaching degree Mittelschule German (2024) First state examination for the teaching degree Grundschule Music Education in Primary School (2024) First state examination for the teaching degree Sonderpädagogik Music Education in Primary School (2024) First state examination for the teaching degree Mittelschule Music Education in Middle School (2024) First state examination for the teaching degree Sonderpädagogik Music Education in Middle School (2024) First state examination for the teaching degree Gymnasium Latin Philology (2024) First state examination for the teaching degree Gymnasium English (2024) First state examination for the teaching degree Mittelschule MS-Didaktik Career and Economics (2024) First state examination for the teaching degree Sonderpädagogik MS-Didaktik Career and Economics (2024) First state examination for the teaching degree Grundschule History (2024) First state examination for the teaching degree Gymnasium History (2024) First state examination for the teaching degree Realschule History (2024) First state examination for the teaching degree Mittelschule History (2024) First state examination for the teaching degree Mittelschule Didactics in History (Middle School) (2024) First state examination for the teaching degree Sonderpädagogik Didactics in History (Middle School) (2024) First state examination for the teaching degree Grundschule Didactics in History (Primary School) (2024) First state examination for the teaching degree Gymnasium Greek Philology (2024) First state examination for the teaching degree Grundschule Art Education in Primary School (2024) First state examination for the teaching degree Sonderpädagogik Art Education in Primary School (2024) First state examination for the teaching degree Sonderpädagogik Art Education in Middle School (2024) First state examination for the teaching degree Mittelschule Art Education in Middle School (2024)

Module title Abbreviation					Abbreviation	
Microscale Experiments in Chemistry Teaching			Teaching		08-FD-MS-152-m01	
Module coordinator				Module offered by		
holder	of the F	Professorship of Didactics	s of Chemistry	Institute of Inorgani	ic Chemistry	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
2	(not) s	successfully completed				
Duratio						
1 seme	ster	unknown				
Conten	ts					
		n on contents available.				
		ning outcomes				
		-	wailabla			
_		n on learning outcomes a		```		
	<b>S</b> (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (2)						
			ge — if other than German, e	examination offered — if no	t every semester, information on whether	
		le for bonus)	ov oo minutes)			
		ntation of a project (appr ssessment: German and,				
Allocat	-					
AllULAL		Jaces				
Additio	nal Inf	ormation				
Worklo	ad					
60 h						
Teachir	ng cycl	e				
Referre	d to in	LPO I (examination regulations	s for teaching-degree progra	mmes)		
§ 22	-					
§ 22	-					
§ 22						
Module						
		mination for the teaching	-	• -	· /= · · · · · · ·	
First state examination for the teaching degree Grundschule Didactics in Chemistry (Primary School) (2015)						
		mination for the teaching	-	• -		
		mination for the teaching			amiatry (Middle Cabaal) (a)	
First state examination for the teaching degree Sonderpädagogik Didactics in Chemistry (Middle School) (2015) First state examination for the teaching degree Mittelschule Chemistry (2015)						
First state examination for the teaching degree Mittelschule Didactics in Chemistry (Middle School) (2015)						
First state examination for the teaching degree Mittelschule Chemistry (2020 (Prüfungsordnungsversion 2015))						
	First state examination for the teaching degree Mittelschule Didactics in Chemistry (Middle School) (2020 (Prü- fungsordnungsversion 2015))					
First state examination for the teaching degree Sonderpädagogik Didactics in Chemistry (Middle School) (2020						
	(Prüfungsordnungsversion 2015))					

Module title			Abbreviation		
Out-Of-School Education					08-FD-ASL-152-m01
Module coordinator				Module offered by	
holder	of the F	Professorship of Didactics	s of Chemistry	Institute of Inorgani	c Chemistry
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
2	(not) s	successfully completed			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	unknown			
Conten	ts				
No info	rmatio	n on contents available.			
Intende	ed learr	ning outcomes			
		n on learning outcomes a	vailable.		
		umber of weekly contact hours, l		man)	
S (2)					
		e <b>essment</b> (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether
		ntation of a project (appr ssessment: German and/			
Allocat	ion of p	olaces			
Additio	nal info	ormation			
Worklo	ad				
60 h					
Teachir	ng cycl	9			
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)					
§ 22    Nr. 1 h) § 22    Nr. 2 f) § 22    Nr. 3 f)					
Module appears in					
First state examination for the teaching degree Grundschule Chemistry (2015) First state examination for the teaching degree Grundschule Didactics in Chemistry (Primary School) (2015) First state examination for the teaching degree Realschule Chemistry (2015) First state examination for the teaching degree Gymnasium Chemistry (2015) First state examination for the teaching degree Sonderpädagogik Didactics in Chemistry (Middle School) (2015) First state examination for the teaching degree Mittelschule Chemistry (2015) First state examination for the teaching degree Mittelschule Didactics in Chemistry (Middle School) (2015) First state examination for the teaching degree Mittelschule Didactics in Chemistry (Middle School) (2015) First state examination for the teaching degree Mittelschule Didactics in Chemistry (Middle School) (2015) First state examination for the teaching degree Mittelschule Didactics in Chemistry (Middle School) (2020 (Prü- fungsordnungsversion 2015)) First state examination for the teaching degree Sonderpädagogik Didactics in Chemistry (Middle School) (2020 (Prü- fungsordnungsversion 2015)) First state examination for the teaching degree Sonderpädagogik Didactics in Chemistry (Middle School) (2020 (Prü- fungsordnungsversion 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 Grundschule may write this thesis in the subject Didaktik der Grundschule (Didactics of Grundschule), 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	
Final Thesis according to § 29 LPO I in Chemistry for Elementary School Tea-				ntary School Tea-	o8-Ch-HA-DF-GS-152-mo1	
chers				-		
Modul	e coord	inator		Module offered by	• •	
head o	f the re	search group offering th	e module	Faculty of Chemist	ry and Pharmacy	
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)		
10	nume	rical grade				
Duratio	uration Module level Other prerequisites					
1 seme	semester undergraduate					
Conten	Its	κ.				
in cher	nistry o		ey have agreed upon v	with an authorised e	tly research and write on a topic xaminer in accordance with the grammes).	
Intend	ed lear	ning outcomes				
and an sions,	alyse a and off	problem, conduct a lite	rature search, refer to ution of said problem	relevant theories, in	rrite an academic paper (define nterpret data, draw logical conclu- to deadlines be able to prepare	
Course	<b>S</b> (type, r	number of weekly contact hours,	language — if other than Ger	rman)		
No cou	rses as	signed to module				
		<b>sessment</b> (type, scope, langu ble for bonus)	age — if other than German,	examination offered — if n	ot every semester, information on whether	
Hausarbeit (thesis) pursuant to Section 29 LPO I (examination regulations for teaching-degree programmes) (30 to 50 pages) Language of assessment: German; exceptions pursuant to Section 29 Subsection 4 LPO I (examination regulations for teaching-degree programmes)						
Allocat	ion of	places				
Additio	onal inf	ormation				
Worklo	ad					
300 h						
Teachi	ng cycl	e				
Referre	ed to in	LPO I (examination regulation	ns for teaching-degree progra	immes)		
§ 29						
		•				
Module	e appea	ars in				