

Module Catalogue

for the Subject

Chemistry

as Unterrichtsfach

with the degree "Erste Staatsprüfung für das Lehramt an Mittelschulen"

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

JMU Würzburg • generated 18-Apr-2025 • exam. reg. data record L7|032|-|-|H|2015

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The subject is divided into

section / sub-section	ECTS credits	starting page
Scientific Discipline	54	5
Compulsory Courses	54	6
Teaching	12	21
Compulsory Courses	12	22
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Subject-specific Extra Skills		29
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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

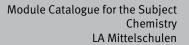
associated official publications (FSB (subject-specific provisions)/SFB (list of modules)):

08-Sep-2015 (2015-129)

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.

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Scientific Discipline

(54 ECTS credits)

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Compulsory Courses

(54 ECTS credits)

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Module title				Abbreviation		
	Principles of Inorganic Chemistry 08-AC1-152-m01					
Module	coord	inator		Module offered by		
lecturer Chemis		ure "Experimentalchem	ie" (Experimental	Institute of Inorgani	c Chemistry	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
8	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 semes	ster	undergraduate				
Conten	ts					
rial and	partic	rovides an overview of tl le level, metals, acid-ba e module introduces fui	se reactions, the perio	odic table, chemical	equilibrium and com	plexometry.
Intende	ed learr	ning outcomes				
cient in actions	basic i using now ho	nderstands the principle models of the structure typical chemical formula ow the most important q	of matter and can des a language and interp	cribe them properly. ret them by identifyir	He/she can depict c ng the type of reactio	hemical re- on. The stu-
Courses	S (type, n	umber of weekly contact hours,	language — if other than Ge	rman)		
V (4) + V	V (2)					
		essment (type, scope, langu le for bonus)	age — if other than German,	examination offered — if no	t every semester, informatio	on on whether
b) oral e c) oral e d) log (a e) prese	 a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English 					
Allocati	ion of p	olaces				
Additio	nal info	ormation				
		2 para. 2 sentence 2 AF nnex 2 to the APOLmCh	OLmCh in conjunctio	n with No. I 2nd lette	r a) of annex 1 to the	APOLmCh
Worklo	ad					
240 h						
Teachir	ng cycle	9				
Referre	d to in	LPO I (examination regulation	ns for teaching-degree progra	ammes)		
§ 42 Nr. 1 and § 22 Nr. 1 h) § 62 Nr. 1						
Module	appea	rs in				
Bachelo First sta	or's deg ate exa	gree (1 major) Biochemis gree (1 major) Chemistry mination for the teachin mination for the teachin	g degree Grundschule	• -	try (Primary School)	(2015)
LA Mittelsch	nulen Che	mistry (2015)		enerated 18-Apr-2025 • exam telschulen (Unterrichtsfach) C	-	page 7 / 64



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)

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)

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	cord Lehramt Mittelschulen (Unterrichtsfach) Chemie - 2015	

Module title Abbreviation			Abbreviation			
Concepts of Inorganic Chemistry			08-AC-KAC-152-m01			
Module	e coord	inator		Module offered by		
		cture "Konzepte der Anor s of Anorganic Chemistry		Institute of Inorgani	ic Chemistry	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	undergraduate				
Conten	ts					
	and the				the orbital model, the VSEPR , acids and bases and electro-	
Intende	ed leari	ning outcomes				
sis of d	ifferent				s of lower complexity on the ba- hemical compounds and know	
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (1) + Ü	Ü (2)					
		s essment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered — if no	t every semester, information on whether	
b) oral c) oral e d) log (a e) prese	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English					
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teachir	ıg cycl	e				
		LPO I (examination regulations	s for teaching-degree progra	mmes)		
	§ 42 Nr. 1 § 62 Nr. 1					
Module	e appea	irs in				
First sta First sta First sta	First state examination for the teaching degree Grundschule Chemistry (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 Mittelschule Chemistry (2015) First state examination for the teaching degree Mittelschule Chemistry (2020 (Prüfungsordnungsversion 2015))					

Modul	e title				Abbreviation
Inorga	nic and	Analytical Chemistry (la	b) (teaching degree)		08-ACP1-LA-152-m01
Module coordinator Module offered by					
holder	ofthe	Chair of Anorganic Chemi	stry	Institute of Inorgan	ic Chemistry
ECTS	Meth	od of grading	Only after succ. com	pl. of module(s)	
7	(not)	successfully completed			
Duratio	on	Module level	Other prerequisites		
1 seme	ester	undergraduate			
Conter	nts	<u> </u>			
lated le course unknov	ecture(s focuse wn sub	s). After a safety briefing, s on laboratory safety, si stances.	the students autonor	mously conduct exp	hey have gained through the re- eriments in the laboratory. The nple substances and analyses of
Intend	ed lear	ning outcomes			
have d	evelop		he necessary stoichi	ometric calculations	xperiments to solve them. They and describe the chemical pro-
Course	es (type, r	number of weekly contact hours, I	anguage — if other than Ger	man)	
P (12)					
Vortest pages Langua	tate/Na each) a age of a	ne for bonus) achtestate (pre and post-und assessment of practions assessment: German and affered: Once a year, sum	al performance (2 to /or English		minutes each, log approx. 5 to 10 ions)
	tion of	•			
Allocal		places			
Additio		ormation			
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Worklo	bad				
210 h					
Teachi	ng cycl	e			
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	
§ 42 § 62					
-	e appea	ars in			
		mination for the teaching	degree Grundschule	Chemistry (2015)	
		mination for the teaching			
1115151					
	ate exa	mination for the teaching	g degree Gymnasium	Chemistry (2015)	
First st		mination for the teaching mination for the teaching			

Module title			Abbreviation			
Organic Chemistry 1 (teaching degree for secondary schools) 08-0C1-LAGMR-152-m01				-m01		
Module coordinator			Module offered by			
holder	of the F	Professorship of Organic	c Chemistry	Institute of Organic	Chemistry	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
6	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	undergraduate				
Conten	ts					
the bor organic	nding s comp	provides students with a ituation of carbon and in ounds. The module also mination reactions as we	ntroduces students to discusses the fundan	the nomenclature of nental principles of s	simple and modera	tely complex
Intende	ed lear	ning outcomes				
of nom lecules	enclatu . They a rpose,	w important categories of tre to determine simple are able to describe and they can analyse and ca	substance names. Stu formulate some of th	idents are able to an e most important rea	alyse the stereocher ctions in organic ch	mistry of mo- emistry. For
Course	S (type, r	number of weekly contact hours,	, language — if other than Gei	rman)		
V (3) +	Ü (1)					
		sessment (type, scope, langu le for bonus)	age — if other than German,	examination offered — if no	t every semester, informati	on on whether
 a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English 						
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
180 h						
Teachi	ng cvcl	e				
	<u> </u>					
		LPO I (examination regulatio	ns for teaching-degree progra	mmes)		
§ 42 Nr. 2 and § 22 Nr. 1 h)						
Module						
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 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) (2015)						
		mistry (2015)		enerated 18-Apr-2025 • exam		page 11 / 64
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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))

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Module title				Abbreviation		
Organi	c Chem	istry 2			08-0C2-VL-152-m01	L
Module	e coord	inator		Module offered by		
holder	of the C	Chair of Physically Orga	nic Chemistry	Institute of Organic	Chemistry	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
6	numei	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate				
Conten	ts					
the exa on reac well as	mple o tions to rearrar	ntroduces students to t f carbonyl compounds o complex reaction me ngement.	, it extends the student	s' knowledge of sub	stitution, eliminatior	n and additi-
Intende	ed learr	ning outcomes				
bonyl c	ompou n plan	become familiar with nds. They are able to d and formulate multi-sta tions.	escribe specific reaction	ons of carbonyls and	aromatics. For that p	purpose,
Course	S (type, n	umber of weekly contact hours	5, language — if other than Gei	rman)		
V (3) +	Ü (1)					
module is	s creditab	e essment (type, scope, lang le for bonus)		examination offered — if no	t every semester, informati	on on whether
b) oral c) oral (d) log (e) pres	examin examin approx entatio	nination (approx. 90 to ation of one candidate ation in groups of up to . 20 pages) or n (approx. 30 minutes) ssessment: German an	each (20 to 30 minute 3 candidates (approx		lidate) or	
Allocat	ion of p	olaces				
Additio	nal info	ormation				
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Worklo	ad					
180 h						
Teachi	ng cycl	9				
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Referre	d to in	LPOI (examination regulation	ons for teaching-degree progra	immes)		
§ 42 Nr. 2 and § 22 Nr. 1 h) § 62 Nr. 2						
Module	Module appears in					
First sta First sta First sta First sta	Module appears in Bachelor's degree (1 major) Functional Materials (2015) 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)					
		mistry (2015)		enerated 18-Apr-2025 • exam	-	page 13 / 64
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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)

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	cord Lehramt Mittelschulen (Unterrichtsfach) Chemie - 2015	

Module title					Abbreviation	
Organio schools		istry - laboratory course	(teaching degree for	secondary	08-OCP-LAGMR-152-mo1	
Module	Module coordinator				Module offered by	
lecture	rs Orga	nische Chemie (Organic	Chemistry)	Institute of Org	anic Chemistry	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5		successfully completed	08-OC1-LAGMR			
Duratio		Module level	Other prerequisites			
1 seme	ster	undergraduate				
Conten			1			
lated le dition te their kn	ecture(s o those nowled;	6). After a safety briefing, e experiments, students v	the students autonor will be expected to ta n the safe handling o	mously conduct ke oral tests and f hazardous sub	dge they have gained through the re- experiments in the laboratory. In ad- d write lab reports to demonstrate stances, simple experimental unit alysis of the products.	
Intende	ed lear	ning outcomes				
rations	of orga ources.	anic chemistry. They are a They are able to connect	able to analyse the yi	eld and purity of	o conduct simple experimental ope- the products and identify possible le lecture with practical experiments	
Courses	S (type, r	number of weekly contact hours, l	language — if other than Ger	man)		
P (7)						
		Sessment (type, scope, langua le for bonus)	ge — if other than German, e	examination offered –	– if not every semester, information on whether	
pages e Langua	each) a ge of a	chtestate (pre and post- nd assessment of practic ssessment: German and ffered: Once a year, sum	cal performance (2 to /or English		. 15 minutes each, log approx. 5 to 10 inations)	
Allocat		· · ·				
Additio	nal inf	ormation				
Worklo	ad					
150 h						
Teachir	ıg cvcl	e				
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Referre	d to in	LPOI (examination regulation	s for teaching-degree progra	mmes)		
§ 42 N						
Module		urs in				
		mination for the teaching	g degree Grundschule	Chemistry (201	٤)	
THUST STO		-			1/	
	ate exa	mination for the teaching	g degree Realschule C		-	
First sta		mination for the teaching mination for the teaching		hemistry (2015)	_	

	e title				Abbreviation
Physical Chemistry (teaching degree for secondary school				5)	08-PC-LAGMR-152-m01
Module coordinator				Module offered by	I
lecturer of lecture "Thermodynamik, Kinetik, Elektrochemie für Studierende der Biologie, Lebensmittelchemie and des Lehramtes Chemie GHR"				Institute of Physica	and Theoretical Chemistry
ECTS	Metho	od of grading	Only after succ. con	pl. of module(s)	
6		rical grade			
Duratio		Module level	Other prerequisites		
1 seme	-	undergraduate			
Conten		undergraduate			
		liccussos the fundam	antal principlos of thorm	advnamice kinatice	and alastrachamistry
			ental principles of therm	ouynamics, kinetics	
		ning outcomes			
			n the fundamental princi and explain fundament		mics, kinetics and electroche- ire and engineering.
Course	S (type, r	number of weekly contact hou	urs, language — if other than Gei	rman)	
V (2) +	Ü (1) +	V (1) + Ü (1)			
			nguage — if other than German,	examination offered — if n	ot every semester, information on whethe
b) oral c) oral	en exa examir examin	ation in groups of up	to 180 minutes) or te each (20 to 30 minute to 3 candidates (approx	-	
b) oral c) oral d) log (e) pres	en exal examir examin (approx entatio	mination (approx. 90 nation of one candidat	te each (20 to 30 minute to 3 candidates (approx s)	-	
b) oral c) oral d) log (e) pres Langua	en exal examir examin (approx entatio	mination (approx. 90 nation of one candidat nation in groups of up x. 20 pages) or on (approx. 30 minutes assessment: German a	te each (20 to 30 minute to 3 candidates (approx s)	-	
b) oral c) oral d) log (e) pres Langua Allocat	en examir examir examin (approx entatio age of a tion of J	mination (approx. 90 nation of one candidat nation in groups of up x. 20 pages) or nn (approx. 30 minutes issessment: German a places	te each (20 to 30 minute to 3 candidates (approx s)	-	
b) oral c) oral d) log (e) pres Langua Allocat	en examir examir examin (approx entatio age of a tion of J	mination (approx. 90 nation of one candidat nation in groups of up x. 20 pages) or on (approx. 30 minutes assessment: German a	te each (20 to 30 minute to 3 candidates (approx s)	-	
b) oral c) oral d) log (e) pres Langua Allocat	en examir examir examin (approx entatio age of a tion of J	mination (approx. 90 nation of one candidat nation in groups of up x. 20 pages) or nn (approx. 30 minutes issessment: German a places	te each (20 to 30 minute to 3 candidates (approx s)	-	
b) oral c) oral d) log (e) pres Langua Allocat	en examir examir examin (approx eentatio age of a tion of p onal inf	mination (approx. 90 nation of one candidat nation in groups of up x. 20 pages) or nn (approx. 30 minutes issessment: German a places	te each (20 to 30 minute to 3 candidates (approx s)	-	
b) oral c) oral d) log (e) pres Langua Allocat Additio	en examir examir examin (approx entatio age of a tion of p onal inf	mination (approx. 90 nation of one candidat nation in groups of up x. 20 pages) or nn (approx. 30 minutes issessment: German a places	te each (20 to 30 minute to 3 candidates (approx s)	-	
b) oral c) oral d) log (e) pres Langua Allocat Additio Worklo 180 h	en examir examir examin (approx entatio age of a tion of p onal inf	mination (approx. 90 nation of one candidat nation in groups of up a 20 pages) or on (approx. 30 minutes issessment: German a places	te each (20 to 30 minute to 3 candidates (approx s)	-	
b) oral c) oral d) log (e) pres Langua Allocat Additio Worklo 180 h	en examir examir examin (approx eentatio age of a tion of p onal inf	mination (approx. 90 nation of one candidat nation in groups of up a 20 pages) or on (approx. 30 minutes issessment: German a places	te each (20 to 30 minute to 3 candidates (approx s)	-	
b) oral c) oral d) log (e) pres Langua Allocat Worklo 180 h Teachi 	en exat examir examin (approx eentatio age of a tion of p onal inf pad	mination (approx. 90 nation of one candidat nation in groups of up a 20 pages) or on (approx. 30 minutes assessment: German a places	te each (20 to 30 minute to 3 candidates (approx s)	. 15 minutes per can	
b) oral c) oral d) log (e) pres Langua Allocat Additic 180 h Teachi Referre	en exa examir examin (approx entatio age of a tion of p onal inf onal inf oad	mination (approx. 90 nation of one candidat nation in groups of up a 20 pages) or on (approx. 30 minutes assessment: German a places	te each (20 to 30 minute to 3 candidates (approx s) and/or English	. 15 minutes per can	
b) oral c) oral d) log (e) pres Langua Allocat Worklo 180 h Teachi Referre § 42 I N	en exa examir examin (approx entatio age of a tion of p onal inf onal inf oad	mination (approx. 90 nation of one candidat nation in groups of up a 20 pages) or on (approx. 30 minutes assessment: German a places formation e LPO I (examination regula d § 22 II Nr. 1 h)	te each (20 to 30 minute to 3 candidates (approx s) and/or English	. 15 minutes per can	



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

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Module	e title		Abbreviation			
Bioche	mistry	1			08-BC1-152-m01	
Module	e coord	inator		Module offered by		
holder	of the (Chair of Biochemistry		Chair of Biochemistry		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5 numerical grade						
Duration Module level Other prerequisites						
1 seme	ster	undergraduate				
Conten	Contents					
mistry. tertiary sis, glu tion, fa	A parti and qu coneos tty acic	ctures and exercises, th cular focus is on the bic uaternary structures), ca genesis, citric acid cycle I synthesis), nucleotide structure of the DNA an	ochemistry of proteins Italytic strategies and , cellular respiration, j metabolism, the urea	(amino acids, peptio enzyme kinetics, car photosynthesis), fatt cycle and amino aci	le bonds, primary, s bohydrate metaboli y acid metabolism (l	econdary, sm (glycoly- beta oxida-
Intend	ed lear	ning outcomes				
		e become familiar with t dule. They are able to d				ere discus-
Course	S (type, r	number of weekly contact hours	, language — if other than Ge	rman)		
V (2) +	Ü (1)					
		sessment (type, scope, langu le for bonus)	age — if other than German,	examination offered — if no	t every semester, informat	ion on whether
written	exami	nation (approx. 60 to 90	minutes)			
Allocat	ion of _l	olaces				
Additio	onal inf	ormation				
		2 para. 2 sentence 2 A POLmCh and No. 3 of an			er e) and No. II 1st le	tter c) of an-
Worklo	ad					
150 h						
Teachi	ng cycl	e				
Referre	ed to in	LPO I (examination regulatio	ns for teaching-degree progra	immes)		
§ 42 N § 62 N						
Module	e appea	ars in				
Bachel	or's de	gree (1 major) Biochemi	stry (2015)			
		gree (1 major) Biology (2	-			
		gree (1 major) Chemistry				
		gree (1 major) Food Che gree (1 major) Functiona				
		mination for the teachir		e Chemistry (2015)		
		mination for the teachir		• -		
		mination for the teachir				
		mination for the teachir		Chemistry (2015)		
Dachel	or s de	gree (1 major) Food Che	inistiy (2010)			
LA Mittelsc	hulen Che	mistry (2015)		enerated 18-Apr-2025 • exam elschulen (Unterrichtsfach) C	-	page 18 / 64

Bachelor's degree (1 major) Biology (2017) Bachelor's degree (1 major) Biochemistry (2017) Bachelor's degree (1 major) Chemistry (2019) Module studies (Bachelor) Chemistry (2019) Bachelor's degree (1 major) Food Chemistry (2019) Module studies (Bachelor) Orientierungsstudien (2020) First state examination for the teaching degree Mittelschule Chemistry (2020 (Prüfungsordnungsversion 2015)) Bachelor's degree (1 major) Biology (2021) Bachelor's degree (1 major) Functional Materials (2021) Bachelor's degree (1 major) Food Chemistry (2021) Bachelor's degree (1 major) Food Chemistry (2022) Bachelor's degree (1 major) Biology (2022) Bachelor's degree (1 major) Biology (2022) Bachelor's degree (1 major) Functional Materials (2025) Bachelor's degree (1 major) Functional Materials (2025)

Julius-Maxi

UNIVERSITÄT

WÜRZBURG

Module title					Abbreviation
Exercises in Experimental Presentation (teaching degree for secondary schools) 08-ÜiVmD-LAGMR-152-mo1					
Module coordinator Module offered					,
lecture	ers of th	e three lectures offered i	n this module	Faculty of Chemist	try and Pharmacy
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)	
6	(not)	successfully completed	o8-OCP-LAGMR		
Duratio	on	Module level	Other prerequisites		
1 seme	ester	undergraduate			
Conter	nts	<u>`</u>			
		design, prepare and deliv nonstrations.	ver presentations on a	a range of topics in	chemistry. Presentations will in-
Intend	ed lear	ning outcomes			
the spe particu	ecific n Ilar tea	eeds of their audience. Th	hey are able to select lan and safely perform	experiments on the	n a given topic that is tailored to e topic in question that support a vill be expected to apply both their
Course	es (type, 1	number of weekly contact hours, I	language — if other than Ger	rman)	
Ü (3) +	Ü (3) +	Ü (3)			
		sessment (type, scope, langua ole for bonus)	ge — if other than German, o	examination offered — if r	not every semester, information on whether
nutes e Langua	each) age of a	in the fields of inorganic assessment: German and offered: Once a year, wint	/or English	ıl chemistry includi	ng demonstrations (approx. 45 mi
Allocat	tion of	places			
Additio	onal inf	ormation			
Worklo	oad				
180 h					
Teachi	ng cycl	e			
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	mmes)	
§ 42 I	Vr. 3				
Modul	e appea	ars in			
First st	ate exa	mination for the teaching mination for the teaching mination for the teaching	g degree Realschule (Chemistry (2015)	
		mination for the teaching			





Teaching

(12 ECTS credits)

LA Mittelschulen Chemistry (2015)	JMU Würzburg • generated 18-Apr-2025 • exam. reg. data re-	page 21 / 64
	cord Lehramt Mittelschulen (Unterrichtsfach) Chemie - 2015	





Compulsory Courses

(12 ECTS credits)

LA Mittelschulen Chemistry (2015)	JMU Würzburg • generated 18-Apr-2025 • exam. reg. data re-	page 22 / 64
	cord Lehramt Mittelschulen (Unterrichtsfach) Chemie - 2015	

Module	e title		Abbreviation			
Introduction into Teaching Chemistry for Elementary, Secondary and Middle 08-FD1-LAGMR-152-m01 School						
Module	e coord	inator				
				Institute of Inorgan	ic Chemistry	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
4	nume	rical grade		-		
Duratio	n	Module level	Other prerequisites			
1 seme	ster	unknown				
Conten	ts					
No info	rmatio	n on contents available.				
Intende	ed lear	ning outcomes				
		n on learning outcomes a	available.			
Course	S (type, r	umber of weekly contact hours,	anguage — if other than Ger	rman)		
V (2) +	S (2)					
a) writt	en exai	^{le for bonus)} nination (approx. 90 mir ssessment: German and		ation (approx. 20 m	inutes)	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
120 h						
Teachi	ng cycl	e				
Referre	d to in	LPO I (examination regulation	s for teaching-degree progra	ammes)		
§ 42 N	lr. 4					
Module	e appea	irs in				
	ate exa	mination for the teaching	g degree Grundschule	chemistry(201r)		
			-			
First sta	ate exa	mination for the teaching mination for the teaching	g degree Realschule (Chemistry (2015)		

Module title					Abbreviation
Teachi	ng Chei	mical Practice for Eleme	ntary and Secondar	y School	08-FD2-LAGM-152-m01
Module	e coord	inator		Module offer	ed by
holder	of the F	Professorship of Didactio	s of Chemistry	Institute of Ir	organic Chemistry
ECTS	Metho	od of grading	Only after succ. co	ompl. of module	(s)
5	· · · · · ·	rical grade			
J Duratio	<u> </u>	Module level	Other prerequisit	26	
		-			
2 seme	l	unknown			
Conten	ts				
No info	rmatio	n on contents available.			
Intende	ed learn	ning outcomes			
No info	rmatio	n on learning outcomes	available.		
		umber of weekly contact hours,		German)	
S (2) +		, , , , ,			
		accmant (tuna coope larger	ago if other than Carry	a ovamination offers	d if not avone competer information on whether
		le for bonus)	age — II other than Germa	i, examination offere	d — if not every semester, information on whether
		,			
a) proc	ontatio	n with practical oxamina	tion (approx ao mi	nutoc) and b) pr	ocontation (approx ap minutos)
				nutes) and b) pr	esentation (approx. 20 minutes)
Langua	ge of a	ssessment: German and		nutes) and b) pr	esentation (approx. 20 minutes)
Langua	ge of a	ssessment: German and		nutes) and b) pr	esentation (approx. 20 minutes)
Langua Allocat	ge of a ion of p	ssessment: German and Jlaces		nutes) and b) pr	esentation (approx. 20 minutes)
Langua Allocat	ge of a ion of p	ssessment: German and		nutes) and b) pr	esentation (approx. 20 minutes)
Langua Allocat Additio 	ge of a ion of p nal info	ssessment: German and Jlaces		nutes) and b) pr	esentation (approx. 20 minutes)
Langua Allocat Additio Worklo	ge of a ion of p nal info	ssessment: German and Jlaces		nutes) and b) pr	esentation (approx. 20 minutes)
Langua Allocat Additio Worklo 150 h	ge of a ion of p nal info ad	ssessment: German and places prmation		nutes) and b) pr	esentation (approx. 20 minutes)
Langua Allocat Additio Worklo 150 h	ge of a ion of p nal info ad	ssessment: German and places prmation		nutes) and b) pr	esentation (approx. 20 minutes)
Langua Allocat Additio Worklo 150 h	ge of a ion of p nal info ad	ssessment: German and places prmation		nutes) and b) pr	esentation (approx. 20 minutes)
Langua Allocat Additio Worklo 150 h Teachin 	ge of a ion of p nal info ad	ssessment: German and places prmation	/or English		esentation (approx. 20 minutes)
Langua Allocat Additio Worklo 150 h Teachin Referre	ge of a ion of p nal info ad ng cyclo ed to in	ssessment: German and places prmation	/or English		esentation (approx. 20 minutes)
Langua Allocat Additio Worklo 150 h Teachin Referre § 38 I N	ge of a ion of p nal info ad ng cyclo ed to in Ir. 1	ssessment: German and places prmation	/or English		esentation (approx. 20 minutes)
Langua Allocat Additio Worklo 150 h Teachin § 38 N § 42 N	ge of a ion of p mal info ad ng cyclo Ir. 1 Ir. 4 an	ssessment: German and places prmation e LPOI (examination regulation d § 36 Nr. 7	/or English		esentation (approx. 20 minutes)
Langua Allocat Additio 150 h Teachin Referre § 38 N § 42 N Module	ge of a ion of p mal info ad ad d to in lr. 1 lr. 4 an e appea	ssessment: German and places prmation e LPOI (examination regulation d § 36 Nr. 7	or English	grammes)	
Langua Allocat Additio 150 h Teachin Referre § 38 N § 42 N Module First sta	ge of a ion of p mal info ad ad d to in Ir. 1 Ir. 4 and ate exa	ssessment: German and places ormation e LPO I (examination regulation d § 36 Nr. 7 Irs in mination for the teaching	y degree Grundschu	grammes) Ile Chemistry (20	
Langua Allocat Additio Worklo 150 h Teachin § 38 N § 42 N Module First sta First sta	ge of a ion of p nal info ad ad d to in lr. 1 lr. 4 and ate exa ate exa ate exa	ssessment: German and places ormation e LPO I (examination regulation d § 36 Nr. 7 ars in mination for the teaching mination for the teaching	y degree Grundschu g degree Grundschu	grammes) Ile Chemistry (20 Ile Didactics in (D15)
Langua Allocat Additio Worklo 150 h Teachin Referre § 38 N § 42 N § 42 N Module First sta First sta First sta	ge of a ion of p mal info ad ng cyclo d to in lr. 1 lr. 4 an ate exa ate exa ate exa ate exa	ssessment: German and places ormation e LPO I (examination regulation d § 36 Nr. 7 ars in mination for the teaching mination for the teaching	yor English	grammes) Ile Chemistry (20 Ile Didactics in (dagogik Didactic	D15) Chemistry (Primary School) (2015) s in Chemistry (Middle School) (2015)
Langua Allocat Additio Worklo 150 h Teachin Referre § 38 N § 42 N Module First sta First sta First sta First sta First sta	ge of a ion of p mal info ad ad ad ad ad ad ad ad ad ad ad ad ad	ssessment: German and places ormation e LPO I (examination regulation d § 36 l Nr. 7 Irs in mination for the teaching mination for the teaching	y degree Grundschu g degree Grundschu g degree Sonderpäc g degree Mittelschu g degree Mittelschu	grammes) Ile Chemistry (24 Ile Didactics in (lagogik Didactic Ie Chemistry (20 Ile Didactics in (20)	D15) Chemistry (Primary School) (2015) s in Chemistry (Middle School) (2015) hemistry (Middle School) (2015)
Langua Allocat Additio Worklo 150 h Teachin Referre § 38 N § 42 N Module First sta First sta First sta First sta First sta	ge of a ion of p mal info ad ad ad ad ad ad ad ad ad ad ad ad ad	ssessment: German and places ormation e LPO I (examination regulation d § 36 l Nr. 7 Irs in mination for the teaching mination for the teaching	y degree Grundschu g degree Grundschu g degree Sonderpäc g degree Mittelschu g degree Mittelschu	grammes) Ile Chemistry (24 Ile Didactics in (lagogik Didactic Ie Chemistry (20 Ile Didactics in (20)	015) Chemistry (Primary School) (2015) s in Chemistry (Middle School) (2015) 015)
Langua Allocat Additio Worklo 150 h Teachin 8 38 N § 38 N § 42 N Module First sta First sta First sta First sta First sta First sta	ge of a ion of p mal info ad ad d to in lr. 1 lr. 4 an ate exa ate exa ate exa ate exa ate exa ate exa ate exa ate exa	ssessment: German and places ormation e LPO I (examination regulation d § 36 Nr. 7 ars in mination for the teaching mination for the teaching	y degree Grundschu g degree Grundschu g degree Sonderpäo g degree Mittelschu g degree Mittelschu g degree Mittelschu	grammes) Ile Chemistry (20 Ile Didactics in (dagogik Didactic le Chemistry (20 Ile Didactics in C le Chemistry (20	D15) Chemistry (Primary School) (2015) s in Chemistry (Middle School) (2015) hemistry (Middle School) (2015)
Langua Allocat Additio Uorklo 150 h Teachin Referre § 38 I N § 42 I N Module First sta First sta	ge of a ion of p mal info ad ad ad ad ad ad ad ad ad ad ad ad ad	ssessment: German and places ormation e LPO I (examination regulation d § 36 l Nr. 7 urs in mination for the teaching mination for the teaching	y or English s for teaching-degree prop g degree Grundschu g degree Grundschu g degree Sonderpäo g degree Mittelschu g degree Mittelschu g degree Mittelschu g degree Mittelschu	grammes) Ile Chemistry (20 Ile Didactics in (lagogik Didactic le Chemistry (20 Ile Didactics in (Ile Chemistry (20 Ile Didactics in (Ile Didactics in (015) Chemistry (Primary School) (2015) s in Chemistry (Middle School) (2015) 015) Chemistry (Middle School) (2015) 020 (Prüfungsordnungsversion 2015)) Chemistry (Middle School) (2020 (Prü-
Langua Allocat Additio Uvorklo 150 h Teachin Referre § 38 I N § 42 I N Module First sta First sta	ge of a ion of p mal info ad ad ad ad ad ad ad ad ad ad ad ad ate exa ate exa	ssessment: German and places ormation e LPO I (examination regulation d § 36 l Nr. 7 urs in mination for the teaching mination for the teaching	y or English s for teaching-degree prop g degree Grundschu g degree Grundschu g degree Sonderpäo g degree Mittelschu g degree Mittelschu g degree Mittelschu g degree Mittelschu	grammes) Ile Chemistry (20 Ile Didactics in (lagogik Didactic le Chemistry (20 Ile Didactics in (Ile Chemistry (20 Ile Didactics in (Ile Didactics in (D15) Chemistry (Primary School) (2015) s in Chemistry (Middle School) (2015) D15) Chemistry (Middle School) (2015) D20 (Prüfungsordnungsversion 2015))

Module title					Abbreviation
Chemistry in Elementary and Secondary School					08-FD3-LAGM-152-m01
Modul	e coord	linator	Module offered by	<u>.</u>	
holder	ofthe	Professorship of Didactic	s of Chemistry	Institute of Inorgan	ic Chemistry
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)	
3	(not)	successfully completed			
Duratio		Module level	Other prerequisites		
1 seme	ester	unknown			
Conter	nts	•	•		
No info	ormatio	n on contents available.			
Intend	ed lear	ning outcomes			
	-	n on learning outcomes a	available.		
		number of weekly contact hours,	-	rman)	
S (2)			, – – –		
module i	s credital Itation	sessment (type, scope, langua ole for bonus) (approx. 20 minutes) assessment: German and		examination offered — if no	ot every semester, information on whether
Allocat					
Additio	onal inf	ormation			
Worklo	ad				
90 h					
Teachi	ng cyc	le	-		
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	ammes)	
§ 42 Nr. 4					
Module appears in					
First st	ate exa	mination for the teaching mination for the teaching mination for the teaching	g degree Mittelschule	Chemistry (2015)	rüfungsordnungsversion 2015))





Paper

(4 ECTS credits)

Students studying for a teaching degree Mittelschule must complete a practical training in didactics and teaching methodology (studienbegleitendes fachdidaktisches Praktikum) which refers to one of the subjects they selected as vertieft studiertes Fach (subject studied with a focus on the scientific discipline) pursuant to Section 34 Subsection 1 No. 4 LPO I (examination regulations for teaching-degree programmes). The obligatory accompanying tutorial is offered by the respective subject. The ECTS credits obtained are counted in the subject Erziehungswissenschaften pursuant to Section 10 Subsection 3 LASPO (general academic and examination regulations for teaching-degree programms).

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	cord Lehramt Mittelschulen (Unterrichtsfach) Chemie - 2015	

Module title					Abbreviation
Interns	Internship at Secondary Schools				o8-Ch-SBPrakt-LAMS-152-mo1
Module coordinator				Module offered by	
holder	of the F	Professorship of Didactic	s of Chemistry	Faculty of Chemistr	y and Pharmacy
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
4	(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			
No info	rmatio	n on learning outcomes a	vailable.		
Course	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)	
P (o) + 3	S (2)				
Method	l of ass	essment (type, scope, langua	ge — if other than German, e	examination offered — if no	t every semester, information on whether
		le for bonus)			
		ritten elaboration of teac	hing practice, approx	. 8 pages)	
Allocat	ion of p	olaces			
Additio	nal info	ormation			
Worklo	ad				
120 h					
Teachir	ng cycl	e			
Referre	d to in	LPOI (examination regulation	s for teaching-degree progra	mmes)	
§34 1	Nr. 4				
Module	e appea	rs in			
	ate exa	mination for the teaching mination for the teaching	-		e (2015) e (2020 (Prüfungsordnungsversi-



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".

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	cord Lehramt Mittelschulen (Unterrichtsfach) Chemie - 2015	



Subject-specific Extra Skills (ECTS credits)

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

LA Mittelschulen Chemistry (2015)	JMU Würzburg • generated 18-Apr-2025 • exam. reg. data re-	page 29 / 64
	cord Lehramt Mittelschulen (Unterrichtsfach) Chemie - 2015	

Module title					Abbreviation	
Practica	al spec	troscopy 2			o8-AC-Spec-152-mo1	
Module	coord	inator		Module offered by		
lecturer of lecture "Praktische Spektroskopie 2"		Institute of Inorgani	ic Chemistry			
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
3	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 semes		undergraduate				
Conten						
		quips students with an a ures and properties, spee			l saline compounds. It focuses ical processes.	
Intende	ed learr	ning outcomes				
priate n	nanner		pic methods that car		saline compounds in an appro- uctural analysis of solids and can	
Courses	S (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
V (2)						
module is	creditab	le for bonus)		examination offered — if no	t every semester, information on whether	
b) oral e c) oral e d) log (a e) prese	examin examin approx entatio	nination (approx. 90 to 1 ation of one candidate e ation in groups of up to 3 . 20 pages) or n (approx. 30 minutes) ssessment: German and/	ach (20 to 30 minute 3 candidates (approx.		didate) or	
Allocati	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
90 h						
Teachir	ng cycl	8				
		LPO I (examination regulations	s for teaching-degree progra	mmes)		
§ 22 N § 22 N						
§ 22 § 22	-					
Module		irs in				
		mination for the teaching	g degree Grundschule	Chemistry (2015)		
		mination for the teaching	-			
		mination for the teaching		• -		
		mination for the teaching mination for the teaching	-		riifungsordnungsversion 2015))	
11131 310	First state examination for the teaching degree Mittelschule Chemistry (2020 (Prüfungsordnungsversion 2015))					

	e title				Abbreviation
Practic	al spec	troscopy 1			08-OC-Spec-152-m01
Module coordinator				Module offered by	
lecturer of lecture "Organische Chemie 2"		Institute of Organic	Chemistry		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
3	nume	rical grade			
Duratio	on	Module level	Other prerequisites	ther prerequisites	
1 semester undergraduate					
Conten	ts				
This mo NMR sp			e spectroscopic meth	ods of infrared spec	troscopy, mass spectrometry and
Intende	ed lear	ning outcomes			
Studen	its are a	able to describe importar	nt spectroscopic metl	hods, to evaluate a s	pectrum and to draw conclusions
regardi	ng the	molecular structure.	-		
Course	S (type, r	number of weekly contact hours, l	anguage — if other than Ge	rman)	
V (2)	-				
		sessment (type, scope, langua le for bonus)	ge — if other than German,	examination offered — if no	ot every semester, information on whether
d) log (e) pres	approx	ation in groups of up to g . 20 pages) or			
Langua		n (approx. 30 minutes) ssessment: German and	/or English		
Langua Allocat	ige of a	n (approx. 30 minutes) ssessment: German and	/or English		
Allocat	ige of a ion of J	n (approx. 30 minutes) ssessment: German and blaces	/or English		
Allocat	ige of a ion of J	n (approx. 30 minutes) ssessment: German and	/or English		
Allocat Additio	ige of a ion of p	n (approx. 30 minutes) ssessment: German and blaces	/or English		
Allocat Additio Worklo	ige of a ion of p	n (approx. 30 minutes) ssessment: German and blaces	/or English		
Allocat Additio Worklo 90 h	ige of a ion of p onal inf	n (approx. 30 minutes) ssessment: German and blaces ormation	/or English		
Allocat Additio Worklo	ige of a ion of p onal inf	n (approx. 30 minutes) ssessment: German and blaces ormation	/or English		
Allocat Additio Worklo 90 h Teachin	ion of j onal inf pad	n (approx. 30 minutes) ssessment: German and places ormation			
Allocat Additio Worklo 90 h Teachin Referre	ige of a ion of p onal inf pad ng cycl	n (approx. 30 minutes) ssessment: German and blaces ormation		ammes)	
Allocat Additio Worklo 90 h Teachin Referre § 22	age of a ion of p onal inf onal info onal info info info info info info info info	n (approx. 30 minutes) ssessment: German and places ormation		ammes)	
Allocat Additio Worklo 90 h Teachin Referre § 22 § 22	age of a ion of p onal inf pad ng cycl ed to in Nr. 1 h) Nr. 2 f)	n (approx. 30 minutes) ssessment: German and places ormation		ammes)	
Allocat Additio Worklo 90 h Teachin Referre § 22 § 22 § 22 § 62 N	ed to in Nr. 2 f) Nr. 2	n (approx. 30 minutes) ssessment: German and places ormation e LPO I (examination regulation		ammes)	
Allocat Additio Worklo 90 h Teachin § 22 § 22 § 22 § 62 N Module	age of a ion of p onal inf pad ng cycl ed to in Nr. 1 h) Nr. 2 f) √r. 2 e appea	n (approx. 30 minutes) ssessment: German and blaces ormation e LPO I (examination regulation	s for teaching-degree progra	ammes)	
Allocat Additio Worklo 90 h Teachin § 22 II I § 3 C I N Module Bachel	age of a ion of j onal inf onal info onal info info onal info info info info info info info info	n (approx. 30 minutes) ssessment: German and places ormation e LPO I (examination regulation	s for teaching-degree progra Materials (2015)		
Allocat Additio Worklo 90 h Teachin § 22 II I § 3 C I N Module Bachel- First sta	ed to in Nr. 1 h) Nr. 2 f) Vr. 2 e appea or's de ate exa	n (approx. 30 minutes) ssessment: German and places ormation e LPO I (examination regulation urs in gree (1 major) Functional	s for teaching-degree progra Materials (2015) g degree Grundschule	e Chemistry (2015)	
Allocat Additio Worklo 90 h Teachin § 22 II I § 5 2 I I S 6 2 I N Module First sta First sta First sta	ed to in Nr. 1 h) Nr. 2 f) Vr. 2 e appea or's de ate exa ate exa ate exa	n (approx. 30 minutes) ssessment: German and olaces ormation e LPO I (examination regulation gree (1 major) Functional mination for the teaching mination for the teaching mination for the teaching	s for teaching-degree progra Materials (2015) g degree Grundschule g degree Realschule (g degree Gymnasium	e Chemistry (2015) Chemistry (2015) Chemistry (2015)	
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~	e title				Abbreviation	
Solid State Chemistry					08-AC-FK-152-m01	
Module	e coord	inator		Module offered by		
lecture mistry)	r of lec	ture "Festkörperchemie'	' (Solid State Che-	Institute of Inorgani	ic Chemistry	
ECTS	Meth	od of grading	Only after succ. co	mpl. of module(s)		
3	nume	rical grade				
Duratio	on	Module level	Other prerequisites	5		
1 seme	ster	undergraduate				
Conten	ts		•			
		equips students with an tures and properties, sp			•	. It focuses
Intende	ed lear	ning outcomes				
		able to describe the stru r. They are able to system				n an appro-
Course	S (type, r	number of weekly contact hours	, language — if other than Ge	erman)		
V (2)						
Metho	d of ass	sessment (type, scope, langu	uage — if other than German,	examination offered — if no	t every semester, informati	ion on whether
		ole for bonus)				
	~	on (approx. 30 minutes)				
Langua Allocat 		ssessment: German and	d/or English			
Allocat	ion of _l	ssessment: German and	d/or English			
Allocat	ion of _l	issessment: German and places	d/or English			
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Allocat Additio	ion of ponal inf	issessment: German and places	d/or English			
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Allocat Additio Worklo 90 h	ion of ponal inf	ormation	d/or English			
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Flomon	e title				Abbreviation	
Elemental Organic Chemistry					08-AC-ELO-152-mo	1
Module coordinator			Module offered by			
lecture	r of lect	ture "Elementorganisch	e Chemie" (Elemental	tal Institute of Inorganic Chemistry		
Organic	c Chem	istry)				
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate				
Conten	ts					
		quips students with an ecial material classes,	_	-	t focuses on their st	ructures and
Intende	ed lear	ning outcomes	· · · · ·			
able to	system	able to describe the strunise them and characte ples for the synthesis o	rise their structure and	reactivity. In additio		
Courses	S (type, r	number of weekly contact hours	s, language — if other than Ger	rman)		
V (2) +	Ü (1)					
		sessment (type, scope, lang le for bonus)	uage — if other than German,	examination offered — if no	t every semester, informat	ion on whether
e) prese	entatio ge of a	. 20 pages) or n (approx. 30 minutes) ssessment: German an blaces	d/or English			
Additio	nal inf	ormation				
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 Worklo	ad	Unnation				
	ad	Unitation				
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150 h						
150 h Teachir 	ng cycl	e	ons for teaching-degree progra	ımmes)		
150 h Teachir § 22 N § 22 N	ng cycl ed to in Nr. 1 h) Nr. 2 f)		ons for teaching-degree progra	ımmes)		
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First state examination for the teaching degree Mittelschule Chemistry (2020 (Prüfungsordnungsversion 2015)) Bachelor's degree (1 major) Biochemistry (2022) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

LA Mittelschulen Chemistry (2015)	JMU Würzburg • generated 18-Apr-2025 • exam. reg. data re-	page 34 / 64
	cord Lehramt Mittelschulen (Unterrichtsfach) Chemie - 2015	

Module title			Abbreviation			
Organic Chemistry 3 08-0C3-152-m01						
Module	e coordi	inator		Module offered by		
holder	of the P	Professorship of Organi	ic Chemistry	Institute of Organic	Chemistry	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
6	numer	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate				
Conten	its					
radical	s. It dis		ngements, olefination r al principles of stereos			
Intende	ed learn	ning outcomes				
asymm	netric ca		ation reactions. They a able to describe organc			
Course	S (type, n	umber of weekly contact hour	s, language — if other than Gei	rman)		
V (2) +	Ü (2)					
		essment (type, scope, lang le for bonus)	uage — if other than German,	examination offered — if no	t every semester, informati	ion on whether
b) oral c) oral d) log (e) pres	examin examin (approx. entatio		e each (20 to 30 minute o 3 candidates (approx		didate) or	
Allocat	ion of p	laces				
Additio	onal info	ormation				
Worklo	ad					
180 h						
Teachi	ng cycle	9				
Referre	ed to in	LPO I (examination regulati	ons for teaching-degree progra	immes)		
§ 22 § 22 § 22	Nr. 2 f)					
	e appea	rcin				
			ng degree Grundschule	Chemistry (2015)		
			ng degree Realschule (• •		
			ng degree Gymnasium	,		
First sta	ate exar	mination for the teachi	ng degree Mittelschule	Chemistry (2015)		
			n MINT Teacher Educat			
			n MINT Teacher Educat			
			ng degree Mittelschule	-		
		ning degree Gymnasiur mistry (2015)	n MINT Teacher Educat JMU Würzburg • g	ION PLUS, Elite Netwo enerated 18-Apr-2025 • exam		025) page 35 / 64
		, , ,,		elschulen (Unterrichtsfach) C	-	

Module title			Abbreviation			
Organi	Organic Chemistry 4 08-0C4-152-m01					
Modul	e coord	inator		Module offered by		
holder of the Chair of Organic Chemistry II		stry II	Institute of Organic	Chemistry		
ECTS	1	od of grading	Only after succ. con		,	
5	nume	rical grade				
Duratio		Module level	Other prerequisites			
1 semester undergraduate						
Conter	Contents					
	zardou	liscusses biologically ir s substances, complica				
Intend	ed lear	ning outcomes				
able to proteir ids.	o charac ns. In ac	able to name important terise and categorise d dition, they are able to	yes. Students are able describe the structure	to describe the struc of the DNA, carbohy	cture and selective s	ynthesis of
V (2) +						
a) writt b) oral c) oral d) log (e) pres Langua	 Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus) a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English 					
Allocat	tion of _l	olaces				
Additio	onal inf	ormation	_			
Worklo	ad					
150 h	-					
Teachi	ng cycl	e				
Referre	ed to in	LPO I (examination regulation	ons for teaching-degree progra	ammes)		
§ 22 Nr. 1 h) § 22 Nr. 2 f) § 62 Nr. 2						
Modul	e appea	ars in				
First st First st First st First st Master Master	ate exa ate exa ate exa ate exa r's degr r's teac	gree (1 major) Biochem mination for the teachi mination for the teachi mination for the teachi mination for the teachi ee (1 major) Functional hing degree Gymnasiun	ng degree Grundschule ng degree Realschule (ng degree Gymnasium ng degree Mittelschule Materials (2016) n MINT Teacher Educat	Chemistry (2015) Chemistry (2015) Chemistry (2015) ion PLUS, Elite Netwo		
LA Mittelso	chulen Che	emistry (2015)		enerated 18-Apr-2025 • exam elschulen (Unterrichtsfach) C	-	page 36 / 64

Julius-Maximilians-UNIVERSITÄT WÜRZBURG

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

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) First state examination for the teaching degree Mittelschule Chemistry (2020 (Prüfungsordnungsversion 2015)) Bachelor's degree (1 major) Biochemistry (2022)

Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025)

LA Mittelschulen Chemistry (2015)	JMU Würzburg • generated 18-Apr-2025 • exam. reg. data re-	page 37 / 64
	cord Lehramt Mittelschulen (Unterrichtsfach) Chemie - 2015	

Quantu	e title				Abbreviation	
	ım Che	mistry			08-TC-152-m01	
Module coordinator			Module offered by	<u>I</u>		
lecture	r of lec	ture "Quantenchemie"		· · · · · · · · · · · · · · · · · · ·	l and Theoretical Ch	emistrv
ECTS		od of grading	Only after succ. con	· · ·		
3 Duratio		Module level	 Other prerequisites			
1 semester undergraduate						
Conten			1			
This mo spin, th tion and	odule p ne Paul d excit	provides students with de i principle, Slater determ ed states, the Born-Oppe	inants, the Hartree-Fo	ock method, correlat	ion energy, configur	
Intende	ed lear	ning outcomes				
Studen	ts are a	able to describe excited s	states of molecules w	ith the help of key c	oncepts and models	•
Course	S (type, 1	number of weekly contact hours,	language — if other than Gei	rman)		
V (2) + I	Ü (1)					
Method	d of as	sessment (type, scope, langua ole for bonus)	age — if other than German,	examination offered — if no	ot every semester, informat	ion on whether
		on (approx. 30 minutes)				
credital	ble for		/or English			
	ble for	bonus	/or English			
credital Allocat	ble for	bonus	/or English			
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credital Allocati Additio 90 h Teachir § 22 II N § 22 II N § 22 II N § 22 II N Bachelo Bachelo	ble for ion of p mal inf ad ad ad ad ad ad ad ad ad ad ad ad ad	bonus places formation e LPOI (examination regulation ars in gree (1 major) Chemistry gree (1 major) Mathemat	(2015) ics (2015)			
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Bachelor's degree (1 major) Biochemistry (2017) Bachelor's degree (1 major) Chemistry (2017) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2020) First state examination for the teaching degree Mittelschule Chemistry (2020 (Prüfungsordnungsversion 2015)) Bachelor's degree (1 major) Functional Materials (2021) Bachelor's degree (1 major) Biochemistry (2022) Bachelor's degree (1 major) Mathematics (2023) Master's teaching degree Gymnasium MINT Teacher Education PLUS, Elite Network Bavaria (ENB) (2025) Bachelor's degree (1 major) Functional Materials (2025)

LA Mittelschulen Chemistry (2015)	JMU Würzburg • generated 18-Apr-2025 • exam. reg. data re-	page 39 / 64
	cord Lehramt Mittelschulen (Unterrichtsfach) Chemie - 2015	

Module	e title				Abbreviation
Symme	Symmetry, chemical bonding and light - Part 1				08-PC-SBL1-152-m01
Module	Module coordinator			Module offered by	<u> </u>
lecture Licht"	lecturer of lecture "Symmetrie, chemische Bindung and Licht"				l and Theoretical Chemistry
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
6	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate			
Conten		undergraduate	1		
tions, p	oint gr		nd selection rules. Th	e module deals with	on group theory, symmetry opera- the chemical bond based on the ational chemistry.
Intende	ed lear	ning outcomes			
		able to analyse the symn es of a particular molecu			conclusions about the spectros-
Course	S (type, r	number of weekly contact hours,	language — if other than Ge	rman)	
V (3) +	Ü (2)				
Method	d of ass	sessment (type, scope, languale for bonus)	age — if other than German,	examination offered — if no	ot every semester, information on whether
Langua Allocat	ge of a ion of J	n (approx. 30 minutes) ssessment: German and blaces ormation	/or English		
Worklo	ad		-		
180 h					
Teachii	ig cycl	e			
Referre	d to in	LPO I (examination regulation	ns for teaching-degree progra	immes)	
§ 22 § 22 § 22 § 22	Nr. 1 h) Nr. 2 f)				
Module	e appea	urs in			
First sta	ate exa				
		mination for the teachin	g degree Grundschule	e Chemistry (2015)	
		mination for the teachin	g degree Realschule (Chemistry (2015)	
First sta	ate exa	mination for the teachin mination for the teachin	g degree Realschule (g degree Gymnasium	Chemistry (2015) Chemistry (2015)	
First sta First sta	ate exa ate exa	mination for the teachin mination for the teachin mination for the teachin	g degree Realschule (g degree Gymnasium g degree Mittelschule	Chemistry (2015) Chemistry (2015) Chemistry (2015)	
First sta First sta Master	ate exa ate exa 's teacl	mination for the teachin mination for the teachin mination for the teachin ning degree Gymnasium	g degree Realschule (g degree Gymnasium g degree Mittelschule MINT Teacher Educat	Chemistry (2015) Chemistry (2015) Chemistry (2015) ion PLUS, Elite Netwo	ork Bavaria (ENB) (2016)
First sta First sta Master Master	ate exa ate exa 's teacl 's teacl	mination for the teachin mination for the teachin mination for the teachin ning degree Gymnasium ning degree Gymnasium	g degree Realschule (g degree Gymnasium g degree Mittelschule MINT Teacher Educat MINT Teacher Educat	Chemistry (2015) Chemistry (2015) Chemistry (2015) ion PLUS, Elite Netwo ion PLUS, Elite Netwo	ork Bavaria (ENB) (2020)
First sta First sta Master Master First sta	ate exa ate exa 's teacl 's teacl ate exa	mination for the teachin mination for the teachin mination for the teachin ning degree Gymnasium ning degree Gymnasium mination for the teachin	g degree Realschule (g degree Gymnasium g degree Mittelschule MINT Teacher Educat MINT Teacher Educat g degree Mittelschule	Chemistry (2015) Chemistry (2015) Chemistry (2015) ion PLUS, Elite Netwo on PLUS, Elite Netwo Chemistry (2020 (Pl	ork Bavaria (ENB) (2020) rüfungsordnungsversion 2015))
First sta First sta Master Master First sta Master	ate exa ate exa 's teacl 's teacl ate exa 's teacl	mination for the teachin mination for the teachin mination for the teachin ning degree Gymnasium ning degree Gymnasium mination for the teachin	g degree Realschule (g degree Gymnasium g degree Mittelschule MINT Teacher Educat MINT Teacher Educat g degree Mittelschule MINT Teacher Educat	Chemistry (2015) Chemistry (2015) Chemistry (2015) ion PLUS, Elite Netwo on PLUS, Elite Netwo Chemistry (2020 (Pl	ork Bavaria (ENB) (2020) rüfungsordnungsversion 2015)) ork Bavaria (ENB) (2025)

Module	e title				Abbreviation	
Toxicol	Toxicology and legal studies				03-TR-152-m01	
Modula	Module coordinator Module off			Module offered by		
lecturer of lecture "Toxikologie und Rechtskunde"			ochtskundo"	Faculty of Medicine		
ECTS			Only after succ. con			
		od of grading	Only alter succ. con	ipt. of module(s)		
3 Duratio		rical grade Module level				
1 seme		undergraduate				
Conten						
Basics toxicolo	-	l regulations for chemi	sts (handling and trans	portation of hazardo	ous materials), funda	amentals of
Intende	ed leari	ning outcomes				
		master the basics of leaster the basics of the fundamentals of t	gal regulations for chen oxicology.	nists (handling and t	ransport of hazardo	us substan-
Course	S (type, n	umber of weekly contact hour	s, language — if other than Ger	man)		
V (1) + V	V (1)					
		essment (type, scope, lang le for bonus)	uage — if other than German, d	examination offered — if no	t every semester, informat	ion on whether
written	exami	nation (approx. 90 min	utes)			
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
			POLmCh in conjunction and 6 of annex 3 to th		er g) and i) and No. I	l 1st letter d)
Worklo	ad					
90 h						
Teachir	ng cycl	e				
Referre	d to in	LPO I (examination regulati	ons for teaching-degree progra	mmes)		
§ 22 § 22 § 22	Nr. 1 h) Nr. 2 f)					
Module		irs in				
-		gree (1 major) Biochem	istry (2015)			
		gree (1 major) Chemist				
		gree (1 major) Food Che				
			ng degree Grundschule			
			ng degree Grundschule ng degree Realschule (stry (Primary School)	(2015)
			ng degree Gymnasium	• -		
First sta First sta	ate exa ate exa	mination for the teachi mination for the teachi	ng degree Sonderpäda ng degree Mittelschule	gogik Didactics in Cl Chemistry (2015)		_
			ng degree Mittelschule	Didactics in Chemis	try (Middle School)	(2015)
	-	ee (1 major) Chemistry gree (1 major) Food Che				
		gree (1 major) Food Che gree (1 major) Biochem				
		mistry (2015)		anerated 18-Apr 2025 • even	reg data re-	D300 /1 / 6/
LA MILLEISC	nuteri Crie	1113(1) (2015 <i>)</i>		enerated 18-Apr-2025 • exam elschulen (Unterrichtsfach) C	-	page 41 / 64



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)

LA Mittelschulen Chemistry (2015)	JMU Würzburg • generated 18-Apr-2025 • exam. reg. data re-	page 42 / 64
	cord Lehramt Mittelschulen (Unterrichtsfach) Chemie - 2015	

Module	e title				Abbreviation
Trainin	Training for Exams in Inorganic Chemistry				08-PVAC-152-m01
Module coordinator Module of			Module offered by		
lecture	r of the	e seminar		Faculty of Chemistr	y and Pharmacy
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)	
2	(not)	successfully completed			
Duratio	n	Module level	Other prerequisites		
1 seme	ster	undergraduate			
Conten	ts				
		gives students the opport xamination and try exam			try that are likely to be covered
Intende	ed lear	ning outcomes			
	ts are	able to solve selected que	estions on inorganic	chemistry that were	asked in the state examination ir
Course	S (type,	number of weekly contact hours, l	anguage — if other than Ge	rman)	
S (2)					
		sessment (type, scope, langua ole for bonus)	ge — if other than German,	examination offered — if no	ot every semester, information on whether
		lks on selected assignme ssessment: German and,		ites each)	
Allocat	ion of	places			
Additio	nal inf	ormation			
Worklo	ad				
60 h	-				
Teachi	ng cycl	e			
Referre	ed to in	LPO I (examination regulation	s for teaching-degree progra	immes)	
§ 22 § 22 § 22	Nr. 2 f)				
Module	appe	ars in			
First sta	ate exa	mination for the teaching	g degree Grundschule	e Chemistry (2015)	
		mination for the teaching	-		
		mination for the teaching	,	, · · .	
		mination for the teaching			wifungoordnungouereien es -))
rirst sta	ate exa	mination for the teaching	g degree mittelschule	Chemistry (2020 (Pi	rüfungsordnungsversion 2015))

Module	e title				Abbreviation
Trainin	Training for Exams in Organic Chemistry				08-PVOC-152-m01
Module coordinator Modu			Module offered by		
lecture	r of the	e seminar		Faculty of Chemistr	y and Pharmacy
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)	
3	(not)	successfully completed			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate			
Conten	ts	1 0	1		
		gives students the opport nination and try exam pa			/ that are likely to be covered on
		ning outcomes	pers nom previous ye		
			estions on organic ch	emistry that were as	sked in the state examination in
previou					
Course	S (type, 1	number of weekly contact hours, l	anguage — if other than Gei	rman)	
S (2)					
		sessment (type, scope, langua ble for bonus)	ge — if other than German,	examination offered — if no	ot every semester, information on whether
		Ilks on selected assignments and,		ıtes each)	
Allocat	ion of	places			
Additio	onal inf	ormation			
Worklo	ad		·		
90 h					
Teachi	ng cycl	e			
Referre	ed to in	LPO I (examination regulations	s for teaching-degree progra	ummes)	
§ 22					
§ 22					
§ 22	Nr. 3 f)				
Module					
		mination for the teaching		• -	
		mination for the teaching			
		mination for the teaching			
		mination for the teaching	-		
rirst sta	ate exa	imination for the teaching	g aegree Mittelschule	e Chemistry (2020 (Pi	rüfungsordnungsversion 2015))

Module title					Abbreviation
	-	xams in Chemistry Teach l Teachers	ing for Elementary, S	econdary and	08-FD-PVLAGMRS-152-m01
Module	e coord	inator	Module offered by		
holder	of the l	Professorship of Didactic	s of Chemistry	Institute of Inorgar	nic Chemistry
ECTS	Meth	od of grading	Only after succ. con	pl. of module(s)	
2	(not)	successfully completed			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	unknown			
Conten	Its				
No info	ormatio	n on contents available.			
Intend	ed lear	ning outcomes			
		n on learning outcomes a	available.		
Course	S (type, r	number of weekly contact hours, I	anguage — if other than Ge	man)	
S (2)					
		Sessment (type, scope, langua ble for bonus)	ge — if other than German,	examination offered — if n	ot every semester, information on whether
		cted assignments (approx ssessment: German and			
Allocat	ion of _l	olaces			
Additio	onal inf	ormation			
Worklo	ad				
60 h					
Teachi	ng cycl	e			
Referre	ed to in	LPOI (examination regulation	s for teaching-degree progra	mmes)	
§ 22 § 22					
Module	e appea	ars in			
First sta First sta	ate exa ate exa	mination for the teaching mination for the teaching mination for the teaching mination for the teaching	g degree Realschule (g degree Mittelschule	Chemistry (2015) Chemistry (2015)	Prüfungsordnungsversion 2015))

Module	Module title Abbreviation				
Instruc	tions f	or Scientific Research			08-FD-WA-152-m01
Module	Module coordinator			Module offered by	
holder	of the l	Professorship of Didactic	s of Chemistry	Institute of Inorgan	ic Chemistry
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
2	(not) s	successfully completed			
Duratio	on	Module level	Other prerequisites		
1 seme	ester	unknown			
Conten	nts				
No info	ormatio	n on contents available.			
Intend	ed lear	ning outcomes			
		n on learning outcomes a	vailable.		
Course	S (type, r	number of weekly contact hours, l	anguage — if other than Gei	rman)	
S (2)			,		
presen Langua	tation (age of a	le for bonus) (approx. 30 minutes) ssessment: German and,	/or English		
Allocat	tion of J	DIACES			
Additio	onal Inf	ormation			
Worklo					
60 h		_			
reachi	ng cycl	e			
	ad to in		- Contraction - 1		
		LPO I (examination regulation	s for teaching-degree progra	immes)	
§ 22 § 22	Nr. 1 h) Nr. 2 f)				
§ 22					
Module	e appea	ars in			
		mination for the teaching	-	• -	
		mination for the teaching	-	• • •	
		mination for the teaching			
		mination for the teaching	-	• -	rüfungsordnungsversion 2015))
1115151	ale exd		s degree millerschule	Chemistry (2020 (Pl	

Module	Module title				Abbreviation	
Chemis	Chemistry SchoolLabs 08-FD-LLL-152-m01					
Module	e coord	inator		Module offered by		
holder	of the F	Professorship of Didaction	s of Chemistry	Institute of Inorgani	c Chemistry	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
2	(not) s	successfully completed				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	unknown				
Conten	Its					
No info	ormatio	n on contents available.				
Intend	ed learı	ning outcomes				
No info	ormatio	n on learning outcomes	available.			
Course	S (type, n	number of weekly contact hours,	 language — if other than Ger	rman)		
P (3)						
Metho	Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)					
		gnment (successful supe	 ervision of 2 sessions	in learn-teach-lab, ai	oprox. 4 to 6 hours e	each)
•	_	ssessment: German and			op.o	
Allocat	ion of p	olaces				
Additio	onal inf	ormation				
			_			
Worklo	ad		_			
60 h						
Teachi	ng cycl	e				
	0.7					
Referre	ed to in	LPOI (examination regulation	ns for teaching-degree progra	ammes)		
§ 22						
§ 22	,					
§ 22	Nr. 3 f)					
Module	e appea	ars in				
		mination for the teachin				
		mination for the teachin				
		mination for the teachin				
		mination for the teachin				
		mination for the teachin			(2009)	
		mination for the teachin				
		mination for the teachin				
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		mination for the teachin mination for the teachin				
		mination for the teachin		-)	
		mination for the teachin		-		
		mination for the teachin		• •))	
					-	
	First state examination for the teaching degree Grundschule Science of Sport (2009)					
	rst state examination for the teaching degree Hauptschule English (2009)					

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 Mittelschulen Chemistry (2015) JMU Würzburg • generated 18-Apr-2025 • exam. reg. data repage 48 / 64 cord Lehramt Mittelschulen (Unterrichtsfach) 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 German (2015)

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

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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)

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	cord Lehramt Mittelschulen (Unterrichtsfach) 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))

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

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

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

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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))

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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)

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

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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)

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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)

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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 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) 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 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) LA Mittelschulen Chemistry (2015) JMU Würzburg • generated 18-Apr-2025 • exam. reg. data repage 56 / 64 cord Lehramt Mittelschulen (Unterrichtsfach) Chemie - 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) 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 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) LA Mittelschulen Chemistry (2015) IMU Würzburg • generated 18-Apr-2025 • exam. reg. data repage 57 / 64

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

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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))

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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 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 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 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 Gymnasium English (2021) First state examination for the teaching degree Gymnasium Philosophy and Ethics (2021) 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 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 Mittelschule Geography (2023) 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 Mittelschule German (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 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 Gymnasium Greek Philology (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)

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	cord Lehramt Mittelschulen (Unterrichtsfach) Chemie - 2015	

Module	e title				Abbreviation
Microscale Experiments in Chemistry Teaching				08-FD-MS-152-m01	
Module coordinator				Module offered by	
		rofessorship of Didactics	s of Chemistry	Institute of Inorgan	ic Chemistry
ECTS	1	d of grading	Only after succ. com	· · · · · ·	
2	1	uccessfully completed			
_ Duratio	·	Module level	Other prerequisites		
1 seme		unknown			
Conten					
		on contents available.			
		ing outcomes			
		on learning outcomes a			
	S (type, nu	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
	1	e for bonus)	• • •		
		ntation of a project (appr ssessment: German and			
	. <u> </u>				
Allocal	ion of p	laces			
Additio	onal info	ormation			
Worklo	ad				
60 h					
Teachi	ng cycle				
Referre	ed to in l	LPOI (examination regulations	s for teaching-degree progra	mmes)	
-	Nr. 1 h)				
§ 22	-				
§ 22					
	e appea				
		nination for the teaching	-	• -	
			-		stry (Primary School) (2015)
		nination for the teaching	-		
		nination for the teaching			nemistry (Middle School) (2015)
		nination for the teaching			iennistry (minute School) (2015)
			-	• -	try (Middle School) (2015)
			-		rüfungsordnungsversion 2015))
			-		try (Middle School) (2020 (Prü-
		sversion 2015))			
		-	g degree Sonderpäda	gogik Didactics in Cl	nemistry (Middle School) (2020
(Prüfun	ngsordn	ungsversion 2015))			

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	cord Lehramt Mittelschulen (Unterrichtsfach) Chemie - 2015	

Module	Module title Abbreviation				Abbreviation	
Out-Of-	Dut-Of-School Education 08-FD-ASL-152-mo1					
Module	coord	inator		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	-	Module level	Other prerequisites			
1 seme		unknown				
Conten						
		n on contents available.				
		ning outcomes				
			vailable			
		n on learning outcomes a				
	5 (type, n	umber of weekly contact hours, l	anguage — if other than Ger	man)		
S (2)						
		s essment (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			0.1			
Additio	nalinf	ormation				
Auditio	nat init					
 Worklo	ad					
60 h						
Teachir	ng cycl	a				
	<u>19 cyc</u>	-				
Deferre	d to in		6			
		LPO I (examination regulations	s for teaching-degree progra	mmes)		
§ 22 § 22						
§ 22						
Module		irs in				
First sta	ate exa	mination for the teaching	degree Grundschule	Chemistry (2015)		
First sta	ate exa	mination for the teaching	degree Grundschule	Didactics in Chemis	stry (Primary School) (2015)	
First sta	ate exa	mination for the teaching	degree Realschule C	hemistry (2015)		
First sta	ate exa	mination for the teaching	degree Gymnasium	Chemistry (2015)		
		-			nemistry (Middle School) (2015)	
		mination for the teaching				
					try (Middle School) (2015)	
		-	-	•	üfungsordnungsversion 2015))	
		-	degree Mittelschule	Didactics in Chemis	try (Middle School) (2020 (Prü-	
		sversion 2015)) mination for the teaching	dogroo Condense	norik Didantina in Ch	omistry (Middle Cabaal) (and	
			uegree Sonderpada	gogik didactics in Cr	nemistry (Middle School) (2020	
(i i ui ui i	(Prüfungsordnungsversion 2015))					

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Paper

(10 ECTS credits)

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

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	cord Lehramt Mittelschulen (Unterrichtsfach) Chemie - 2015	

Module	Module title Abbreviation				
Final Thesis according to § 29 LPO I in Chemistry for Secondary School Tea- 08-Ch-HA-UF-MS-15					08-Ch-HA-UF-MS-152-m01
chers					
Module coordinator Module offered b					
head of	the re	search group offering the	e module	Faculty of Chemistr	y and Pharmacy
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
10	nume	rical grade			
Duratio	n	Module level	Other prerequisites		
1 semes	ster	undergraduate			
Content	ts				
in chem	nistry o		ey have agreed upon v	vith an authorised ex	ly research and write on a topic xaminer in accordance with the rammes).
Intende	ed learı	ning outcomes			
and ana sions, a an appr	alyse a and offe ropriate	problem, conduct a liter er approaches to the solu e written account of the r	ature search, refer to ution of said problem results of their work.	relevant theories, in) be able to work to	rite an academic paper (define terpret data, draw logical conclu- o deadlines be able to prepare
Courses	5 (type, n	umber of weekly contact hours,	language — if other than Ger	man)	
No cour	rses as	signed to module			
		essment (type, scope, langua le for bonus)	age — if other than German, e	examination offered — if no	t every semester, information on whether
to 50 pa Langua	ages) ge of a		-	-	aching-degree programmes) (30 on 4 LPO I (examination regulati-
Allocati	ion of p	olaces			
Additio	nal inf	ormation			
Workloa	ad				
300 h					
Teachin	ng cycl	e			
Referre	d to in	LPOI (examination regulation	s for teaching-degree progra	mmes)	
§ 29					
Module	appea	ars in			
First sta First sta		mination for the teaching	g degree Mittelschule	Chemistry (2015)	