

Annex SFB

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

Responsible: Faculty of Chemistry and Pharmacy

Examination regulations version: 2015

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

= lecture

Term: **SS** = summer semester, **WS** = winter semester

Methods of grading: NUM = numerical grade, B/NB = (not) successfully completed

Regulations: (L)ASPO = general academic and examination regulations (for teaching-degree programmes), FSB = subject-specific provisions, SFB

= list of modules

Other: **A** = thesis, **LV** = course(s), **PL** = assessment(s), **TN** = participants, **VL** = prerequisite(s)

Conventions for the modules in this SFB:

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

Information on assessment procedures:

Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the method of assessment to be used in the current semester by two weeks after the start of the course at the latest and will communicate this in the customary manner.

Should a module comprise more than one graded assessment, all assessments will be equally weighted, unless otherwise stated below.

Should the assessment comprise several individual assessments, successful completion of the module will require successful completion of all individual assessments.

In accordance with the general regulations governing the degree subject described in this module catalogue:

LASP02015

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

08-Sep-2015 (2015-127)

This module handbook seeks to render, as accurately as possible, the data that is of statutory relevance according to the examination regulations of the degree subject. However, only the FSB (subject-specific provisions) and SFB (list of modules) in their officially published versions shall be legally binding. In the case of doubt, the provisions on, in particular, module assessments specified in the FSB/SFB shall prevail.

Every module will be described using the following form:

Abbreviation	Module title										
	ECTS		Duration	(in semesters)	Method of grading		Module level				
	Courses		To be spe	ecified in the form X	(y) with course type λ	abbreviated as specified abo	ve and number of we	ekly contact hours y			
	Method of as	ssessm	ent								
	Only after su completion of		ıl if applica	fapplicable							
	Other prereq	uisites	if applica	if applicable							
	Participants on of places		ocati- if applica	ible							
	Additional in	format	ion if applica	if applicable							
	Referred to in	n LPO I	if applica	ble (examination re	gulations for teaching	g-degree programmes)					

Scientific Disciplin	ne (60 EC	TS cred	its)								
Compulsory Cours	es (60 EC	TS cred	dits)								
08-AC1-152-m01	Princip	les of I	norganic (Chemis	stry						
	ECTS	8	Duratio	n	1 semester	Method of gradir	ng numerical grade	Modul level	undergraduate		
	Course	S		V (4) ·	+ V (2)			,			
				b) ora c) ora d) log e) pre Langu	Il examination of or I examination in gr (approx. 20 pages sentation (approx. lage of assessmen	oups of up to 3 can i) or 30 minutes) t: German and/or E	20 to 30 minutes) or didates (approx. 15 minutes p nglish				
	Additio Referre			annex § 42 l	according to § 2 para. 2 sentence 2 APOLmCh in conjunction with No. I 2nd letter a) of annex 1 to the APOLmCh and No. 1 of annex 2 to the APOLmCh § 42 Nr. 1 and § 22 Nr. 1 h) § 62 Nr. 1						
0.46.1/46				_							
08-AC-KAC-152- m01			organic C		· · · · · · · · · · · · · · · · · · ·	1					
11101		5	Duratio		1 semester	Method of gradin	ng numerical grade	Modul level	undergraduate		
	Courses Method of assessment			V (1) + Ü (2) 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							
	Referre		_	§ 42 l § 62 l	Nr. 1						
08-ACP1-LA-152-		nic and			istry (lab) (teachir						
mo1	ECTS	7	Duratio		1 semester	Method of gradir	ng (not) successfully comple	eted Modul level	undergraduate		
	Course			P (12)							
	Method of assessment			and a Langu	Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical performance (2 to 4 random examinations) Language of assessment: German and/or English Assessment offered: Once a year, summer semester						
	Referred to in LPO I			§ 42 Nr. 1 § 62 Nr. 1							

08-AS-HG-152-m01	Inorga	nic Che	mistry of t	he Ma	in Group Elements							
	ECTS	3	Duration		1 semester	Method of grading numerica	al grade	Modul level	undergraduate			
	Course	S		V (2)	•	· · · · · · · · · · · · · · · · · · ·		•				
	Method	d of ass		b) ora c) ora d) log e) pre	Il examination of o I examination in gr (approx. 20 pages esentation (approx.			candidate) or				
	Referre	d to in I	PO I	§ 42 l	Nr. 1							
08-0C1-		c Chem	istry 1 (tea	aching	ching degree for secondary schools)							
LAGMR-152-mo1	ECTS	6	Duration	1	1 semester	Method of grading numerical	al grade	Modul level	undergraduate			
	Courses				V (3) + Ü (1)							
	method of discission			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								
	Referre	d to in I	PO I	§ 42 Nr. 2 and § 22 Nr. 1 h)								
08-0C2-VL-152-	Organi	c Chemi	istry 2									
mo1	ECTS	6	Duration		1 semester	Method of grading numerica	al grade	Modul level	undergraduate			
	Course			V (3) -								
	Method of assessment			b) ora c) ora d) log e) pre	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							
	Additio	nal Info	rmation		according to § 2 para. 2 sentence 2 APOLmCh in conjunction with No. I 2nd letter b) of annex 1 to the APOLmCh and No. 2 of annex 2 to the APOLmCh							
	Referre	d to in I		§ 42 Nr. 2 and § 22 Nr. 1 h) § 62 Nr. 2								

08-OCP-	Organi	c Chemi	stry - lab	orator	ratory course (teaching degree for secondary schools)							
LAGMR-152-mo1	ECTS	5	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Course	S		P (7)								
	Method	d of asse	essment	and a		cal performance (2 t German and/or Eng	to 4 random examinations) glish	15 minutes eac	h, log approx. 5 to 10 pages each)			
	comple				C1-LAGMR							
	Referre	d to in L	.PO I	§ 42	l Nr. 2							
08-PC-LAGMR-152-			istry (tea	ching	degree for secondary							
mo1	ECTS 6 Duratio				1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		V (2)	$V(2) + \ddot{U}(1) + V(1) + \ddot{U}(1)$ a) written examination (approx. 90 to 180 minutes) or							
	Method	1 01 0556	essinent	b) ora c) ora d) log e) pre	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							
	Referred to in LPO I			§ 42	Nr. 1 and § 22 II Nr.	1 h)						
08-PCP-LA-152-	Physical Chemistry lab (teaching degree)											
mo1	ECTS	3	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Course			P (3)								
	Method of assessment			Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical performance (2 to 4 random examinations) Language of assessment: German and/or English Assessment offered: Once a year, winter semester								
	Referre	d to in L	PO I	§ 42 § 62								
08-BC1-152-m01	Bioche	mistry 1										
	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		V (2)	+ Ü (1)	•						
	Method	d of asse	essment	writte	en examination (appr	ox. 60 to 90 minute	es)					
					according to § 2 para. 2 sentence 2 APOLmCh in conjunction with No. II 2nd letter e) and No. II 1st letter c) of annex 1 to the APOLmCh and No. 3 of annex 3 to the APOLmCh							
	Referre	d to in L	.PO I	§ 42 Nr. 2 § 62 Nr. 2								

o8-ÜiVmD-	Exercis	ses in Ex	cperiment	al Pre	sentation (teaching	g degree for secondary	schools)				
LAGMR-152-mo1	ECTS	6	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Course	25		Ü (3)	+ Ü (3) + Ü (3)						
	Metho	d of ass	essment	Langu	uage of assessmen	ds of inorganic, organi t: German and/or Engl ce a year, winter seme	ish	ding demonstra	tions (approx. 45 minutes each)		
	Modulo comple	es succe eted	essfully	08-0	CP-LAGMR						
	Referre	d to in	LPO I	§ 42 l	Nr. 3						
Teaching (12 ECTS	credits)										
Compulsory Cours	es (12 EC	CTS cred	lits)								
08-FD1-	Introduction into Teaching Chemistry for Elementary, Secondary and Middle School										
LAGMR-152-mo1	ECTS	4	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	unknown		
	Course	25		V (2) + S (2)							
	Metho	d of ass	essment	a) written examination (approx. 90 minutes) and b) presentation (approx. 20 minutes) Language of assessment: German and/or English							
	Referre	ed to in	LPO I	§ 42 I Nr. 4							
08-FD2-LARS-152-	Teachi	ng Cher	nical Prac	tice fo	r Middle School						
mo1	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	unknown		
	Course	es.		S (2)	S (2) + S (2)						
	Metho	d of ass	essment	a) written examination (approx. 60 minutes) and b) presentation (approx. 20 minutes) Language of assessment: German and/or English							

Paper (4 ECTS credits)

08-FD3-LARS-152-

mo1

Referred to in LPO I

ECTS

Courses

Grade 7/8/9 in Middle School

Method of assessment

Referred to in LPO I

Duration

§ 42 I Nr. 4

§ 42 I Nr. 4

S (2)

1 semester

presentation (approx. 45 minutes)

Language of assessment: German and/or English

Students studying for a teaching degree Realschule 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 cre-

Method of grading (not) successfully completed

Modul level

unknown

dits obtained are counted in the subject Erziehungswissenschaften pursuant to Section 10 Subsection 3 LASPO (general academic and examination regulations for teaching-degree programms).

ching degree progr	u1111113).											
	Interns	Internship at Middle Schools										
LARS-152-m01	ECTS	4	Duratio	1	1 semester	Method of grading	(not) successfully completed	Modul level	unknown			
	Course	S		P (o) +	+ S (2)							
	Method	d of asse		Conte for tea	nts and duration of	placement as specifi	actice, approx. 8 pages) ed in Section 34 Subsection 1 S n in mandatory teaching practio		LPO I (examination regulations of all set tasks as specified by			
	Referre	d to in L	PO I	§ 34 l	1 Nr. 4							

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

Teaching degree students must take modules worth a total of 15 ECTS credits in the area Freier Bereich (general as well as subject-specific electives) (Section 9 LASPO (general academic and examination regulations for teaching-degree programmes)). To achieve the required number of ECTS credits, students may take any modules from the areas below.

Freier Bereich -- interdisciplinary: The interdisciplinary additional offer for a teaching degree can be found in the respective Annex "Ergänzende Bestimmungen für den "Freien Bereich" im Rahmen des Studiums für ein Lehramt".

Chemistry

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

08-AC-Spec-152-	Practical spectroscopy 2										
mo1	ECTS 3 Duration 1 semester Method of grading numerical grade								undergraduate		
	Course	S		V (2)							
	Method	Method of assessment			l examination of one	candidate each (20 ups of up to 3 candic or o minutes)	to 30 minutes) or lates (approx. 15 minutes per ca	andidate) or			
	Referre	d to in L		§ 22 l	Nr. 1 h) Nr. 2 f) Nr. 3 f)						

08-0C-Spec-152-	Practic	Practical spectroscopy 1											
mo1	ECTS	3	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Course	S		V (2)		·							
	Method	d of ass	essment	b) ora c) ora d) log e) pre	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								
	Referred to in LPO I			§ 22 Nr. 1 h) § 22 Nr. 2 f) § 62 Nr. 2									
08-AC-FK-152-m01	Solid S	tate Ch	emistry										
	ECTS	3	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Courses V (2)												
	metilos	a 01 d33	essment	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									
	Referre	d to in	LPO I	§ 22	§ 22 Nr. 1 h) § 22 Nr. 2 f) § 62 Nr. 1								
08-AC-ELO-152-	Elemen	ital Org	anic Cher	nistry									
mo1	ECTS	5	Duratio		1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Course	S		V (2)	+ Ü (1)								
	Method	d of ass	essment	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									
	Referre	d to in	LPO I	§ 22 Nr. 1 h) § 22 Nr. 2 f) § 22 Nr. 3 f)									

08-0C3-152-m01	Organi	c Chem	istry 3		,			·				
	ECTS	6	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		V (2)	+ Ü (2)			,				
	Method	d of ass	essment	b) ora c) ora d) log e) pre	al examination of o al examination in g g (approx. 20 page: esentation (approx	s) or	o to 30 minutes) or dates (approx. 15 minute	es per candidate) or				
08-0C4-152-m01	Referre	d to in	LPO I	§ 22 l	§ 22 Nr. 1 h) § 22 Nr. 2 f) § 22 Nr. 3 f)							
	Organi	c Chem	istry 4									
	ECTS 5 Duratio			า	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		V (2)	(2) + Ü (2)							
		Referred to in LPO I			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 § 22 II Nr. 1 h) § 22 II Nr. 2 f) § 62 I Nr. 2							
08-TC-152-m01	Quantu				1	<u> </u>						
	ECTS	3	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course			` '	+ Ü (1)	,			_			
	Method of assessment			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 creditable for bonus								
	Referre	d to in	LPO I	§ 22 Nr. 1 h) § 22 Nr. 2 f) § 22 Nr. 3 f)								

08-PC-SBL1-152-	Symme	try, che	emical bo	nding	and light - Part 1	-						
mo1	ECTS	6	Duration	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		V (3) -	+ Ü (2)							
	Method	of ass	essment			(approx. 90 to 180 min						
				b) ora	l examination of c	one candidate each (20	to 30 minutes) or	برم (مغملة:امس				
				c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or								
				e) pre	sentation (approx	. 30 minutes)						
					Language of assessment: German and/or English							
	Referre	d to in L	-PO I	§ 22 Nr. 1 h) § 22 Nr. 2 f) § 22 Nr. 3 f)								
03-TR-152-m01	Toxicol	ogy and	l legal stu									
	ECTS 3 Duration		ı	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses			V (1) +	/ (1) + V (1)							
						prox. 90 minutes)						
						sentence 2 APOLmCh and 6 of annex 3 to th		etter g) and i) a	nd No. II 1st letter d) of annex 1 to			
	Referred to in LPO I			§ 22 l	l Nr. 1 h) l Nr. 2 f) l Nr. 3 f)							
08-PVAC-152-m01	Trainin	g for Ex	ams in In		c Chemistry							
	ECTS	2	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Course	S		S (2)								
	Method	of asso	essment	2 to 4 short talks on selected assignments (approx. 10 minutes each) Language of assessment: German and/or English								
	Referred to in LPO I			\$ 22 Nr. 1 h) \$ 22 Nr. 2 f) \$ 22 Nr. 3 f)								
08-PVOC-152-m01	Trainin	g for Ex	ams in Or	ganic	Chemistry	,		'				
	ECTS	3	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Course	S		S (2)		,						
	Method	of ass	essment	4 to 8 short talks on selected assignments (approx. 10 minutes each) Language of assessment: German and/or English								
	Referre	d to in l	-PO I	§ 22 Nr. 1 h) § 22 Nr. 2 f) § 22 Nr. 3 f)								

Referred to in LPO I \$ 22 I Nr. 1 h \$ 22 I Nr. 2 f) 08-FD-WA-152-mo1 Instructions for Scientific Research ECTS 2 Duration 1 seme Courses S (2) Method of assessment presentation Language of a \$ 22 I Nr. 1 h \$ 22 I Nr. 3 f) 08-FD-LLL-152-mo1 Chemistry SchoolLabs ECTS 2 Duration 1 seme Courses P (3) Method of assessment practical assis Language of a Referred to in LPO I \$ 22 I Nr. 1 h \$ 22 I Nr. 2 f \$ 2 I Nr. 3 f) 08-FD-CAS-152-mo1 Collecting Data with CASSY System ECTS 2 Duration 1 seme Courses S (2) Method of assessment presentation Language of a Referred to in LPO I \$ 22 I Nr. 3 f) 8-FD-CAS-152-mo1 Referred to in LPO I \$ 22 I Nr. 2 f) 8-FD-CAS-152-mo1 Microscale Experiments in Chemistry	cted assignments (approx. 30 minutes each) assessment: German and/or English ester Method of grading (not) successfully completed Modul level unknown (approx. 30 minutes) assessment: German and/or English
Method of assessment talk on 3 sele Language of 3 selecting uses of 5 selecting uses of 5 selections. The selections for Scientific Research to 1 seminary selections. The selection is selected using the selection of the selecti	essessment: German and/or English ester Method of grading (not) successfully completed Modul level unknown (approx. 30 minutes) essessment: German and/or English
Referred to in LPO I	ester Method of grading (not) successfully completed Modul level unknown (approx. 30 minutes) essessment: German and/or English
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S 22 Nr. 2 f) O8-FD-WA-152-mo1	ster Method of grading (not) successfully completed Modul level unknown (approx. 30 minutes) assessment: German and/or English
O8-FD-WA-152-mo1 Instructions for Scientific Research	ester Method of grading (not) successfully completed Modul level unknown (approx. 30 minutes) assessment: German and/or English
ECTS 2 Duration 1 seme Courses S (2) Method of assessment presentation Language of a S 22 Nr. 1 h S 22 Nr. 2 f S 22 Nr. 3 f S 22 Nr. 3 f S 22 Nr. 1 h S 22 Nr. 2 f S 22 Nr. 3 f S 22 Nr. 2 f S 22 Nr. 3 f S 22	(approx. 30 minutes) assessment: German and/or English
Courses S (2) Method of assessment presentation Language of a sees Referred to in LPO I § 22 Nr. 1 h	(approx. 30 minutes) assessment: German and/or English
Method of assessment presentation Language of a Referred to in LPO I \$ 22 II Nr. 1 h \$ 22 II Nr. 3 f) O8-FD-LLL-152-mo1 Chemistry SchoolLabs ECTS 2 Duration 1 seme Courses P (3) Method of assessment practical assistanguage of a Referred to in LPO I \$ 22 II Nr. 1 h \$ 22 II Nr. 2 f) \$ 22 II Nr. 3 f) O8-FD-CAS-152-mo1 Courses S (2) Method of assessment presentation Language of a Referred to in LPO I \$ 22 II Nr. 2 f) \$ 22 II Nr. 3 f) Referred to in LPO I \$ 22 II Nr. 3 f) O8-FD-MS-152-mo1 Microscale Experiments in Chemistry	assessment: German and/or English
Referred to in LPO	assessment: German and/or English
Referred to in LPO I \$ 22 Nr. 1 h \$ 22 Nr. 2 f \$ 22 Nr. 3 f) O8-FD-LLL-152-mo1 Chemistry SchoolLabs ECTS 2 Duration 1 seme Courses P (3) Method of assessment practical assidanguage of a general content of the content of t	
S 22 Nr. 3 f) O8-FD-LLL-152-m01	
O8-FD-LLL-152-mo1 ECTS 2	
ECTS 2 Duration 1 seme Courses P (3) Method of assessment practical assitanguage of a language of a	
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Method of assessment practical assistanguage of a Referred to in LPO I \$ 22 II Nr. 1 h \$ 22 II Nr. 2 f \$ 22 II Nr. 3 f \$ 22 II Nr. 2 f \$ 22 II Nr. 3 f \$ 22 II Nr. 3 f \$ 22 II Nr. 3 f \$ 22 II Nr. 1 h \$ 22 II Nr. 2 f \$ 22 II Nr. 2 f \$ 22 II Nr. 1 h \$ 22 II Nr. 2 f \$ 22 II	ster Method of grading (not) successfully completed Modul level unknown
Referred to in LPO I Referred to in LPO I Referred to in LPO I S 22 II Nr. 1 h S 22 II Nr. 2 f S 22 II Nr. 3 f S 22 II Nr. 1 h S 22 II N I N I N I N S 22 II N I N I N I N S 22 II N I N I N I N I N I N I N I N I N	
S 22 Nr. 2 f) § 22 Nr. 3 f) 08-FD-CAS-152-m01 Collecting Data with CASSY System ECTS 2 Duration 1 seme Courses S (2) Method of assessment presentation Language of a graph of the control of t	gnment (successful supervision of 2 sessions in learn-teach-lab, approx. 4 to 6 hours each) assessment: German and/or English
S 22 I Nr. 3 f) O8-FD-CAS-152-mo1 Collecting Data with CASSY System ECTS 2	
mo1 ECTS 2 Duration 1 seme Courses S (2) Method of assessment presentation Language of a sement presentat	
Courses S (2) Method of assessment presentation Language of a Secretary construction and the	
Method of assessment presentation Language of a Referred to in LPO I \$ 22 II Nr. 2 ft \$ 22 II Nr. 3 ft \$ 22 II Nr. 1 ft \$ 22 II Nr. 2 ft \$ 22 II Nr. 1 ft \$ 22 II Nr. 2 ft \$ 22 II Nr. 1 ft \$ 22 II Nr. 2 ft \$ 22	ster Method of grading (not) successfully completed Modul level unknown
Language of a Referred to in LPO § 22 Nr. 2 f) § 22 Nr. 3 f) § 22 Nr. 1 h 08-FD-MS-152-m01 Microscale Experiments in Chemistry	
Referred to in LPO I § 22 II Nr. 2 f) § 22 II Nr. 3 f) § 22 II Nr. 1 h 08-FD-MS-152-mo1 Microscale Experiments in Chemistry	of a project (approx. 30 minutes) assessment: German and/or English
§ 22 II Nr. 3 f) § 22 II Nr. 1 h 08-FD-MS-152-m01 Microscale Experiments in Chemistry	
08-FD-MS-152-mo1 Microscale Experiments in Chemistry	
FCTS 2 Duration 1 same	
	Teaching
Courses S (2)	
	Teaching ster Method of grading (not) successfully completed Modul level unknown
Referred to in LPO I § 22 II Nr. 1 h § 22 II Nr. 2 f	Teaching
§ 22 II Nr. 3 f)	Teaching ester Method of grading (not) successfully completed Modul level unknown entation of a project (approx. 30 minutes) assessment: German and/or English

08-FD-ASL-152-	Out-Of	-School	Educatio	n					
mo1	ECTS	2	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	unknown
	Course	!S		S (2)				-	
	Method	d of asse	essment	project: presentation of a project (approx. 30 minutes) Language of assessment: German and/or English					
Referred to in LPO I									

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 Realschule may write this thesis in one of the subjects 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.

08-Ch-HA-RS-152-	Final Thesis according to § 29 LPO I in Chemistry for Middle School Teachers									
mo1	ECTS	10	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	unknown	
	Course	Courses			No courses assigned to module					
				Hausarbeit (thesis) pursuant to Section 29 LPO I (examination regulations for teaching-degree programmes) (30 to 50 pages) Language of assessment: German; exceptions pursuant to Section 29 Subsection 4 LPO I (examination regulations for teaching-degree programmes)						
	Referred to in LPO I			§ 29						