

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: 2009

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

= lecture

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

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

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

= list of modules

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

Conventions for the modules in this SFB:

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

Information on assessment procedures:

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

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

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

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

LASP02009

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

12-Jan-2012 (2011-104)

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	be specified in the form X (y) with course type X abbreviated as specified above and number of weekly contact hours y								
	Method of as	ssessm	ent									
	Only after su completion of		ıl if applica	if applicable								
	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)						

G : .:C D: . !!	// FCTC !!: \								
•	ne (60 ECTS credits)								
•	es (60 ECTS credits)								
08-AC1-LA-102- mo1	Inorganic Chemistry 1								
11101	ECTS 20 Durati								
	Courses	This module comprises 3 module components. Information on courses will be listed separately for each module component. • 08-AC1-1-102: V + V + Ü (no information on SWS (weekly contact hours) and course language available) • 08-AC1-LA-2-102: P (no information on SWS (weekly contact hours) and course language available) • 08-AC1-LA-3-102: V (no information on SWS (weekly contact hours) and course language available)							
	Method of assessmen	Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.							
		Assessment in module component o8-AC1-1-102: Principles of Inorganic Chemistry Principles of Inorganic Chemistry • 10 ECTS, Method of grading: numerical grade • a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: 60 or 90 minutes each; 3 written examination in groups (groups of 2, approx. 30 minutes) • Language of assessment: German or English • Other prerequisites: Admission prerequisite to assessment: successful completion of exercises in the respective classes as specified at the beginning of the course (usually 70% of exercises to be successfully completed) as well as regular attendance of exercises (usually a maximum of 2 incidents of unexcused absence). Assessment in module component o8-AC1-LA-2-102: Inorganic and Analytical Chemistry (lab) (teaching degree) • 7 ECTS, Method of grading: (not) successfully completed • pre/post-experiment examination talks (Vor-/Nachtestate, approx. 15 minutes each), log (approx. 5 to 10 pages) • Assessment offered: once a year, summer semester • Language of assessment: German or English Assessment in module component o8-AC1-LA-3-102: Inorganic Chemistry 1 (accompanying lecture) (teaching degree) • 3 ECTS, Method of grading: numerical grade • a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: 60 or 90 minutes each; 3 written examinations: 60 minutes each; 3 approx. 20 minutes each; 3 written examinations: 60 or 90 minutes each; 3 written examinations: 60 minutes each; 3 approx. 20 minutes each; 3 written examinations: 60 or 90 minutes each; 3 written examinations: 60 minutes each; 3 approx. 20 minutes each; 3 written examinations: 60 minutes each; 3 approx. 20 minutes							
	other prerequisites	By way of exception, additional prerequisites are listed in the section on assessments.							
	Referred to in LPO I	§ 42 (1) 1. Chemie "Allgemeine und Anorganische Chemie" und "Physikalische und Analytische Chemie" § 62 (1) 1. Chemie "Allgemeine und Anorganische Chemie"; "Physikalische und Analytische Chemie"							

08-AS1-LARS-102-	Chemis	try of th	e elemer	nts							
mo1	ECTS	3	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S		V (no	/ (no information on SWS (weekly contact hours) and course language available)						
	Method	d of asse	essment	each; c) ora	a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German or English						
	Referre	d to in L	PO I	§ 42 (1) 1. Chemie "Allgem	neine und Anorganisch	ne Chemie" und "Physikalisch	e und Analytiscl	he Chemie"		
08-0C1-GHR-092-	Organi	c Chemi	stry 1 (te	aching	degree for seconda	ry schools)					
mo1	ECTS	6	Duration		1 semester	Method of grading		Modul level	undergraduate		
	Course	S		V + Ü	(no information on S	SWS (weekly contact h	ours) and course language av	ailable)			
	Method	Nethod of assessment			a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German or English						
	other prerequisites			ning o	dmission prerequisite to assessment: successful completion of exercises in the respective classes as specified at the beginng of the course (usually 70% of exercises to be successfully completed) as well as regular attendance of exercises (usually maximum of 2 incidents of unexcused absence).						
	Referre	d to in L	PO I	§ 42 (1) 2. Chemie "Organ	ische und Bioorganisc	he Chemie"				
08-0C2-GHR-092-	Organi	c Chemi	stry 2 (te	aching	degree for seconda	ary schools)					
mo1	ECTS	7	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Course	S			<u> </u>		ours) and course language av				
	Method	d of asse	essment	each; c) ora Langu	3 written examinati l examination in gro lage of assessment:	ons: approx. 60 minut ups (groups of 2, appr German or English	es each) or b) oral examinatio ox. 30 minutes)	n of one candid	tions: approx. 60 or 90 minutes late each (approx. 20 minutes) or		
		rerequis		ning o	of the course (usuall imum of 2 incidents	y 70% of exercises to l s of unexcused absence	be successfully completed) as e).		classes as specified at the beginattendance of exercises (usually		
		d to in L	_	-		ische und Bioorganisc		.,			
o8-OC-Prakt-					course (teaching d	egree for secondary s					
GHR-092-m01	ECTS	5	Duration		1 semester		(not) successfully completed		undergraduate		
	Course	_				·	s) and course language availa				
		d of asse		Asses Langu	pre/post-experiment examination talks (Vor-/Nachtestate, approx. 15 minutes each), log (approx. 5 to 10 pages) Assessment offered: once a year, summer semester Language of assessment: German or English						
	Referre	d to in L	PO I	§ 42 (1) 2. Chemie "Organ	ische und Bioorganisc	he Chemie"	-1			

08-PC-GHR-102-	Physical Che	mistry (tea	ching	degree for secondar	y schools)					
mo1	ECTS 4	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V + Ü (no information on SWS (weekly contact hours) and course language available)							
	Method of ass	sessment	writte	written examination (approx. 60 minutes)						
	Referred to in	LPO I	§ 42 (1) 1. Chemie "Allgen	neine und Anorganis	che Chemie" und "Physikalisch	e und Analytisc	he Chemie"		
o8-PC-Prakt-	Physical Che	mistry lab	(teach	ing degree for secor	ndary schools)					
LARS-092-m01	ECTS 3	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Courses		P (no	information on SWS	(weekly contact hou	urs) and course language availa	ble)			
	Method of as	sessment				Nachtestate, approx. 15 minute	s each), log (ap	prox. 5 to 10 pages)		
					e a year, winter seme	ester				
	Referred to in	I DO I		lage of assessment:		aha Chamia" und "Dhuaikaliach	ound Analytica	ha Chamia"		
o8-PC-VKM-		n LPO I § 42 (1) 1. Chemie "Allgemeine und Anorganische Chemie" und "Physikalische und Analytische Chemie" matics (teaching degree)								
LA-102-m01				, 	AA (1 1 C 1)			1		
LA-102-11101	ECTS 2	Duration		1 semester		(not) successfully completed		undergraduate		
	Courses			+ Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of ass	sessment		exercises (4 work sheets) Language of assessment: German or English						
08-BC-GHR-092-	Biochemistry	(teaching		e for secondary scho			'			
mo1	ECTS 4	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V + Ü	(no information on S	SWS (weekly contact	hours) and course language av	ailable)	-		
	Method of ass	a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: 60 or 90 minutes each; 3 written examinations: 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German or English								
	other prerequ	isites	Admission prerequisite to assessment: successful completion of exercises in the respective classes as specified at the beginning of the course (usually 70% of exercises to be successfully completed) as well as regular attendance of exercises (usually a maximum of 2 incidents of unexcused absence).							
	Referred to in	LPO I	§ 42 (1) 2. Chemie "Organ	ische und Bioorgani	sche Chemie"				

08-Ch-R-ÜiV-092-	Exercises in Experiment	al Presentation, Intermediate School						
mo1	ECTS 6 Duration	n 1 semester Method of grading (not) successfully completed Modul level undergraduate						
	Courses	This module comprises 3 module components. Information on courses will be listed separately for each module component. • 08-Ch-LA-ÜiV-1-092: Ü (no information on SWS (weekly contact hours) and course language available) • 08-Ch-LA-ÜiV-2-092: Ü (no information on SWS (weekly contact hours) and course language available) • 08-Ch-R-ÜiV-3-092: Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.						
		Assessment in module component o8-Ch-LA-ÜiV-1-o92: Exercises in Experimental Presentation (Inorganic Chemistry) • 2 ECTS, Method of grading: (not) successfully completed • talk with demonstrations (approx. 45 minutes) • Assessment offered: once a year, winter semester • Language of assessment: German or English Assessment in module component o8-Ch-LA-ÜiV-2-o92: Exercises in Experimental Presentation (Organic Chemistry) • 2 ECTS, Method of grading: (not) successfully completed • talk with demonstrations (approx. 45 minutes) • Assessment offered: once a year, winter semester • Language of assessment: German or English Assessment in module component o8-Ch-R-ÜiV-3-o92: Exercises in Experimental Presentation in Physical Chemistry for Intermediate School Teachers • 2 ECTS, Method of grading: (not) successfully completed • talk with demonstrations (approx. 45 minutes) • Assessment offered: once a year, winter semester • Language of assessment: German or English						
	Modules successfully completed	o8-PC-Prakt-LARS						
	Referred to in LPO I	§ 42 (1) 3. Chemie "Übungen im Vortragen mit Demonstrationen"						

Teaching (12 ECTS	credits)										
08-FD-Gru-RS-092-	Chemi	stry Edu	cation: Te	chnical Contents and Practicabilities in Schools							
mo1	ECTS	4	Duration	1	1 semester	Method of grading numeric	al grade	Modul level	undergraduate		
	Course	!S		This module comprises 2 module components. Information on courses will be listed separately for each module component. o 8-FD-Einf-1-092: V (no information on SWS (weekly contact hours) and course language available) o 8-FD-Gru-RS-2-092: S (no information on SWS (weekly contact hours) and course language available)							
	Metho	d of ass	essment	stated	otherwise, succes	ule comprises the assessments ssful completion of the module	will require successfu	l completion of			
	Referre	ed to in I	_PO I	Assessment in module component o8-FD-Einf-1-092: Introduction in Chemistry Education • 3 ECTS, Method of grading: numerical grade • written examination (approx. 90 minutes) • Language of assessment: German or English Assessment in module component o8-FD-Gru-RS-2-092: Chemistry Lesson at Intermediate Schools (Part I) • 1 ECTS, Method of grading: (not) successfully completed • presentation (approx. 45 minutes) • Language of assessment: German or English § 36 (1) 7. Didaktik der Grundschule Chemie § 38 (1) 1. Didaktik der Hauptschule Chemie							
				§ 42 C) 1. Didaktik der N hemie Fachdidakt) 6. Chemie Didak						
08-FD-CEx-092-		stry Edu	cation, Pa								
mo1	ECTS	3	Duration		1 semester	Method of grading numeric		Modul level	undergraduate		
	Course	es.		S (no i	nformation on SW	'S (weekly contact hours) and co	ourse language availa	ble)			
	Metho	d of ass	essment	written examination (approx. 60 minutes)							
		pants ar of place		Number of places: 25. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot.							
	Referre	ed to in I	-P0 I	§ 42 Chemie Fachdidaktik § 62 (1) 6. Chemie Didaktik							

08-FD-IGP-092-	Didact	ics of Ch	emistry, l	Part III							
mo1	ECTS 5 Duration 1 semester Method of grading (not) succ				Method of grading	(not) successfully completed	Modul level	undergraduate			
	Course	es		This module comprises 2 module components. Information on courses will be listed separately for each module component. • 08-FD-Gru-RSGy-2-092: S (no information on SWS (weekly contact hours) and course language available) • 08-FD-IGP-1-092: S (no information on SWS (weekly contact hours) and course language available)							
	Metho	d of asse		stated	Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.						
					2 ECTS, Method of g Testat (exam, appro	grading: (not) succes		ig and Organizat	tion of Chemistry Education		
					sment in module con 3 ECTS, Method of g presentation (appro	mponent o8-FD-IGP- grading: (not) succes	1-092: Didactics of Chemistry, ssfully completed	Part III			
	Referre	ed to in L			hemie Fachdidaktik 1) 6. Chemie Didakti						

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)

o8-OC-Spec-	Practical	l specti	roscopy 1	(teaching degree for secondary schools)							
LAGY-092-m01	ECTS 3 Duration			ı	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			V (no	information on SWS	(weekly contact hou	rs) and course language availal	ble)			
	Method	of asse	ssment	each; c) oral	a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German or English						
	Referred	to in L	PO I	§ 62 (1) 2. Chemie "Organ	ie "Organische und Bioorganische Chemie"					
08-AC2-PS-LA-102-	Practical	l specti	roscopy	2 (teacl	(teaching degree for secondary schools)						
mo1	ECTS 3	3	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			V (no	V (no information on SWS (weekly contact hours) and course language available)						
	Method	of asse	ssment	a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German or English							

03-TR-072-m01	Toxicol	ogy and	d legal sti	udies				1			
	ECTS	3	Duratio	1	1 semester	Method of grading r	umerical grade	Modul level	undergraduate		
	Course	S		V + V	V + V (no information on SWS (weekly contact hours) and course language available)						
	Method	d of ass	essment	writte	n examination (app	rox. 90 minutes)					
08-AC2-LAGY-102-	Inorgar	nic Cher	mistry of t	the Ele	ments (teaching de	gree for secondary sch	ools)				
mo1	ECTS	3	Duration	1	1 semester	Method of grading r	umerical grade	Modul level	undergraduate		
	Course	S		V (no	information on SWS	(weekly contact hours) and course language availa	ble)			
	Method	d of ass	essment	each; c) ora	a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German or English						
	Referre	d to in l	PO I	§ 62 (1) 1. Chemie "Allger	neine und Anorganisch	e Chemie"; "Physikalische un	d Analytische (Chemie"		
08-AC3-LA-102-	Elemen	ental Organic Chemistry (teaching degree for secondary schools)									
mo1	ECTS	4 Duration 1 semester Method of grading numerical grade Modul level						undergraduate			
	Courses			V + Ü	V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment			each; c) ora	a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English						
	Modules successfully completed			08-A0	o8-AC1 (module component o8-AC1-4 only) and o8-OC3 (module component o8-OC3-2 only)						
	other prerequisites			Admission prerequisite to assessment: successful completion of exercises in the respective classes as specified at the begin ning of the course (usually 70% of exercises to be successfully completed) as well as regular attendance of exercises (usually a maximum of 2 incidents of unexcused absence).							
08-TC-LA-092-m01	Theore	tical Mo	odels in C	hemist	ry (teaching degree	for secondary schools	5)				
	ECTS	3	Duration	1	1 semester	Method of grading r	umerical grade	Modul level	undergraduate		
	Course	s		V + Ü	(no information on	SWS (weekly contact h	ours) and course language av	ailable)	_		
	Method	d of ass	essment	a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes)							
	other prerequisites			Admission prerequisite to assessment: successful completion of exercises in the respective classes as specified at the beginning of the course (usually 70% of exercises to be successfully completed) as well as regular attendance of exercises (usually a maximum of 2 incidents of unexcused absence).							

08-PC-ESS-092-	Electronic structure and spectroscopy											
mo1	ECTS 3	Duratio	n 1 semester	Method of grading	g numerical grade	Modul level	undergraduate					
	Courses	·	V + Ü (no information on SWS (weekly contact hours) and course language available)									
	Method of	fassessment	a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German or English									
	other prer	equisites	ning of the course (to be successfully comple		classes as specified at the begin- r attendance of exercises (usually					
08-0C3-LA-102-	Organic C	hemistry 3 (te	aching degree for se	econdary schools)								
mo1	ECTS 6	Duratio	n 1 semester	Method of grading	g numerical grade	Modul level	undergraduate					
	Courses		V + Ü (no information	on on SWS (weekly contac	ct hours) and course lang	uage available)						
			a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German or English									
	Modules s completed	successfully d	08-0C1 or 08-0C1-0	GHR								
	other prer	equisites	ning of the course (Admission prerequisite to assessment: successful completion of exercises in the respective classes as specified at the beginning of the course (usually 70% of exercises to be successfully completed) as well as regular attendance of exercises (usually a maximum of 2 incidents of unexcused absence).								
08-0C4-LAGY-102-	, , , , , , , , , , , , , , , , , , ,											
mo1	ECTS 5	Duratio	n 1 semester	Method of grading	g numerical grade	Modul level	undergraduate					
	Courses	,	V + Ü (no information	on on SWS (weekly contac	ct hours) and course lang	uage available)						
	Method of	fassessment	a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) c) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German or English									
	Modules s	successfully d	08-OC1 or 08-OC1-GHR									
	other prer	equisites	Admission prerequisite to assessment: successful completion of exercises in the respective classes as specified at the beginning of the course (usually 70% of exercises to be successfully completed) as well as regular attendance of exercises (usually a maximum of 2 incidents of unexcused absence).									
	Referred to	o in LPO I	§ 62 (1) 2. Chemie	Organische und Bioorgar	nische Chemie"							

08-PC4-092-m01	Physical	Chemistry 4: S	tatistical Thermodyna	mics							
	ECTS :	3 Duratio	n 1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		/ + Ü (no information on SWS (weekly contact hours) and course language available)								
	Method	of assessment	a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes)								
	·	erequisites	ning of the course (us a maximum of 2 incid	Admission prerequisite to assessment: successful completion of exercises in the respective classes as specified at the beginning of the course (usually 70% of exercises to be successfully completed) as well as regular attendance of exercises (usually maximum of 2 incidents of unexcused absence).							
08-PC3-092-m01	Physical	and Theoretica	al Chemistry 3: Symme	try and Quantum Chemis	ry						
	ECTS	6 Duratio	n 1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		V + Ü + V + Ü (no infor	mation on SWS (weekly c	ontact hours) and course la	inguage available)					
	Method	of assessment	examinations: 60 min) 1 to 3 written examinations (1 written examination: 90 minutes; 2 written examinations: 60 or 90 minutes each; 3 written xaminations: 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in roups (groups of 2, approx. 30 minutes)							
	other pre	erequisites	ning of the course (us	dmission prerequisite to assessment: successful completion of exercises in the respective classes as specified at the begining of the course (usually 70% of exercises to be successfully completed) as well as regular attendance of exercises (usually maximum of 2 incidents of unexcused absence).							
08-FBC2-PV-101-	Preparation of Exams Chemistry										
mo1	ECTS	5 Duratio	n 1 semester	Method of grading	(not) successfully complete	ed Modul level	undergraduate				
	Courses	,	• 08-FBC2-PV-1-1	 This module comprises 2 module components. Information on courses will be listed separately for each module component. o8-FBC2-PV-1-101: S (no information on SWS (weekly contact hours) and course language available) o8-FBC2-PV-2-101: S (no information on SWS (weekly contact hours) and course language available) 							
	Method	of assessment					ts as specified below. Unless f all individual assessments.				
			 2 ECTS, Method successful part Assessment of Language of as Assessment in modul 3 ECTS, Method successful part 	Assessment in module component o8-FBC2-PV-1-101: Preparation of Exams Inorganic Chemistry • 2 ECTS, Method of grading: (not) successfully completed • successful participation in the form of short presentations on selected assignments • Assessment offered: once a year, summer semester • Language of assessment: German or English Assessment in module component o8-FBC2-PV-2-101: Preparation of Exams Organic Chemistry • 3 ECTS, Method of grading: (not) successfully completed • successful participation in the form of short presentations on selected assignments							
	Modules complete	s successfully	 Assessment offered: once a year, summer semester Language of assessment: German or English 08-OC2-GHR and 08-OC-Prakt-GHR or 08-OC2-LAGY and 08-OC-Prakt-LAGY 								

Teaching (Freier Bereich (gen	eral as well as s	ubject-sp	ecific e	electives) subject	specific)							
o8-FD-WPF-	Guidance in Se	Guidance in Self-reliant Scientific Work										
WA-092-m01	ECTS 2	Duration	n	1 semester	Method of grading	(not) successfully comp	oleted Modul level	undergraduate				
	Courses	,	S (no	nformation on SWS	(weekly contact hou	rs) and course language	e available)	-				
	Method of asse	essment		presentation (approx. 30 minutes) Language of assessment: German or English								
o8-FD-WPF-	Extracurricular	Sites										
LLL-092-m01	ECTS 4	Duration	n l	1 semester	Method of grading	(not) successfully comp	oleted Modul level	undergraduate				
	Courses	<u> </u>	This m	his module comprises 2 module components. Information on courses will be listed separately for each module component. o 8-FD-WPF-LLL-1-092: S (no information on SWS (weekly contact hours) and course language available) o 8-FD-WPF-LLL-2-092: P (no information on SWS (weekly contact hours) and course language available)								
	Method of asse	essment	Asses Asses	sment in module co 2 ECTS, Method of presentation of a p Language of assess sment in module co 2 ECTS, Method of successful supervise	mponent o8-FD-WPF grading: (not) succestoject (approx. 30 misment: German or En	e module will require sud F-LLL-1-092: Opportunition esfully completed frutes) glish F-LLL-2-092: School Lab esfully completed n learn-teach-lab	ccessful completion of	ts as specified below. Unless fall individual assessments.				
o8-FD-WPF-	Preparation of	Exams (Ir	nterme	diate Scholl Teache	rs)							
PVRS-092-m01	ECTS 2	Duration	ı	1 semester	Method of grading	numerical grade	undergraduate					
	Courses		S (no	nformation on SWS	(weekly contact hou	rs) and course language	e available)					
	Method of asse	ssment	writte	written examination (approx. 30 minutes)								
Preparation of a wri site for teaching de ing for a teaching d or in the subject Erz plinary thesis.	hesis (10 ECTS credits) reparation of a written Hausarbeit (thesis) in accordance with the provisions of Section 29 LPO I (examination regulations for teaching-degree programmes) is a prerequite 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) r in the subject Erziehungswissenschaften (Educational Science). Pursuant to Section 29 Subsection 1 Sentence 2 LPO I, students may also choose to write an interdiscilinary thesis.											
o8-Ch-HA-UF-		k (Chemi	stry for	Intermediate Scho	1							
RS-092-m01	ECTS 10	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses			ırses assigned								
			written thesis (Zulassungsarbeit, approx. 40 pages) Language of assessment: German, exceptions in accordance with Section 29 LPO I (examination regulations for teaching degree programmes)									
	Modules successfully completed Where applicable, specific modules/module components as specified by supervisor.											
LA Realschulen Chemistry	y (2009)					JMU Würzburg • generated :	26-Aug-2024 • exam. reg. data r	ecord L3 032 - - H 2009 page 12 / 12				