

Annex SFB

Studienfachbeschreibung (subject description, SFB) for the subject Didactics in Chemistry (Secondary School) as Didaktikfach with the degree "Erste Staatsprüfung für das Lehramt für Sonderpädagogik"

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)):

11-Jan-2012 (2011-103)

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

Every module will be described using the following form:

Abbreviation	Module title										
	ECTS Durati		Duration	(in semesters)	Method of grading		Module level				
	Courses		To be sp	o be specified in the form X (y) with course type X abbreviated as specified above and number of weekly contact hours y							
	Method of as	sessm	ent								
	Only after su completion o		ıl if applic	if applicable							
	Other prereq	uisites	if applic	if applicable							
	Participants and allocation of places		ocati- if applic	able							
	Additional information		ion if applic	if applicable							
	Referred to in	า LPO I	if applic	if applicable (examination regulations for teaching-degree programmes)							

Compulsory Courses (20 ECTS credits)

Successful completion of modules worth 20 ECTS credits in each subject selected as Didaktikfach (subject studied with a focus on teaching methodology) is a prerequisite for admission to the Erste Staatsprüfung (First State Examination) in the subject Didaktiken einer Fächergruppe der Hauptschule (Didactics of a Group of Subjects of Hauptschule).

o8-FD-ExUnt-092-	Experir	Experiments in Chemical Education										
mo1	ECTS				1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	Courses			This module comprises 2 module components. Information on courses will be listed separately for each module component. • 08-FD-ExUnt-1-092: Ü (no information on SWS (weekly contact hours) and course language available) • 08-FD-ExUnt-2-092: S (no information on SWS (weekly contact hours) and course language available)							
	Method of assessment			Asses stated Asses School	sment in this module colls 4 ECTS, Method of presentation with Language of assesment in module colls 5 teCTS, Method of presentation (app	Ile comprises the assisful completion of the omponent o8-FD-ExUrgrading: numerical g demonstration (approsement: German or Enomponent o8-FD-ExUrgrading: numerical grading: numerical grading: numerical grading:	essments in the individual more module will require success nt-1-092: Experiments in Cher rade ox. 30 minutes) glish nt-2-092: Planning of Teachin	odule component ful completion of mical Teaching at	s as specified below. Unless			
	Referred to in LPO I			§ 38 (3 § 38 (3	1) 7. Didaktik der G 1) 1. Didaktik der Ha	rundschule Chemie auptschule Chemie ittelschule Chemie	<u>.</u>					

o8-FD-Ch-BM-	Chemistry Education: Educational Theory and Models of Teaching Concepts											
Did-092-m01	ECTS 5	Duration	1 semester	Method of grading nu	merical grade	Modul level	undergraduate					
	Courses		This module comprises 2 module components. Information on courses will be listed separately for each module component. • 08-FD-Einf-1-092: V (no information on SWS (weekly contact hours) and course language available) • 08-FD-Ch-BM-Did-2-092: S (no information on SWS (weekly contact hours) and course language available)									
	Method of as	ssessment	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-FD-Einf-1-o92: 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-Ch-BM-Did-2-o92: Generation and Utilization of learning Aids • 2 ECTS, Method of grading: (not) successfully completed • presentation (approx. 20 minutes) • Language of assessment: German or English § 36 (1) 7. Didaktik der Grundschule Chemie § 38 (1) 1. Didaktik der Hauptschule Chemie § 38 (1) 1. Didaktik der Mittelschule Chemie § 42 Chemie Fachdidaktik § 62 (1) 6. Chemie Didaktik									
	Referred to i	n LPO I										
o8-FD-Schu-	Concepts of	Teaching Cl	emistry									
lUms-Did-092-mo1	ECTS 5	Duration	1 semester	Method of grading nu	merical grade	Modul level	undergraduate					
	Courses		This module comprises 2 module components. Information on courses will be listed separately for each module component. • 08-FD-SchulUms-1-092: S (no information on SWS (weekly contact hours) and course language available) • 08-FD-SchulUms-Did-2-092: S (no information on SWS (weekly contact hours) and course language available)									
	Method of as	ssessment					s as specified below. Unless all individual assessments.					
			 3 ECTS, Method Testat (exam, ap Language of ass Assessment in module 2 ECTS, Method written examinat 	of grading: numerical grade prox. 20 minutes) essment: German or Englis	h ns-Did-2-092: Theoretical E e							
	Referred to i	n LPO I	§ 36 (1) 7. Didaktik der § 38 (1) 1. Didaktik der § 38 (1) 1. Didaktik der § 42 Chemie Fachdidak	Hauptschule Chemie Mittelschule Chemie								

08-FD-HS-Did-092-	Social	Forms in	Chemist	ry Leai	earning and Extracurricular Sites				
mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Course	?S		This module comprises 2 module components. Information on courses will be listed separately for each module component. • 08-FD-HS-Did-1-092: S (no information on SWS (weekly contact hours) and course language available) • 08-FD-HS-Did-2-092: Ü (no information on SWS (weekly contact hours) and course language available)					
	Metho	d of asse	essment	stated	l otherwise, success	ful completion of the	essments in the individual mod e module will require successfu	l completion of	all individual assessments.
	 Assessment in module component o8-FD-HS-Did-1-092: Social Forms in Chemistry Learning at Co 3 ECTS, Method of grading: numerical grade presentation (approx. 45 minutes) 								at Comprehensive Schools
					sment in module co 2 ECTS, Method of	grading: (not) succes	Did-2-092: Extracurricular Sites		utes)
	Deferre	d to in I	DO I	\$ 00 (sment: German or En	glish		
	Referred to in LPO I				1) 1. Didaktik der Ha 1) 1. Didaktik der Mit				

Freier Bereich (general as well as subject-specific electives) (0-15 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".

Subject-specific Extra Skills (Freier Bereich (general as well as subject-specific electives) -- subject specific) Physical Chemistry (teaching degree for secondary schools) 08-PC-GHR-102mo1 ECTS Duration Method of grading | numerical grade Modul level undergraduate 4 1 semester V + Ü (no information on SWS (weekly contact hours) and course language available) Courses Method of assessment | written examination (approx. 60 minutes) § 42 (1) 1. Chemie "Allgemeine und Anorganische Chemie" und "Physikalische und Analytische Chemie" Referred to in LPO I Inorganic Chemistry of the Elements (teaching degree for secondary schools) 08-AC2-LAGY-102mo1 ECTS 3 Method of grading | numerical grade Duration Modul level 1 semester undergraduate V (no information on SWS (weekly contact hours) and course language available) Courses 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) Language of assessment: German or English Referred to in LPO I § 62 (1) 1. Chemie "Allgemeine und Anorganische Chemie"; "Physikalische und Analytische Chemie"

o8-OC-Prakt-	Organic Chemistry - laboratory course (teaching degree for secondary schools)										
GHR-092-m01	ECTS 5	Duratio	n 1 semester Method of grading (not) successfully completed Modul level undergraduate								
	Courses		P (no information on SWS (weekly contact hours) and course language available)								
	Method of as	sessment	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								
	Referred to in	LPO I	§ 42 (1) 2. Chemie "Organische und Bioorganische Chemie"								
o8-PC-VKM-	Basic Mather	natics (tea	ching degree)								
LA-102-m01	ECTS 2	Duratio	n 1 semester Method of grading (not) successfully completed Modul level undergraduate								
	Courses	,	V + Ü (no information on SWS (weekly contact hours) and course language available)								
	Method of as	sessment									
			Language of assessment: German or English								
o8-Ch-GH-		xperiment	tal Presentation								
ÜiV-092-m01	ECTS 6	Duratio	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-GH-ÜiV-3-092: Ü (no information on SWS (weekly contact hours) and course language available)								
	Method of as	sessment	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-1-092: 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								
	Referred to in	I PO I	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-GH-ÜiV-3-o92: Exercises in Experimental Presentation (Physical Chemistry) for Primary School and Secondary Public 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 § 42 (1) 3. Chemie "Übungen im Vortragen mit Demonstrationen"								
t	Keleffed to III		3 42 (a)), chemic obangen in voltagen int bemonstrationen								

08-0C1-GHR-092-	Organi	c Chem	istry 1 (te	aching degree for secondary schools)						
mo1	ECTS	6	Duration	n	1 semester	Method of grading nun	nerical grade	Modul level	undergraduate	
	Course	S		V + Ü	(no information o	n SWS (weekly contact hour	rs) and course language av	vailable)		
	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) Language of assessment: German or English						
	other p	rerequi	sites	ning	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 "Org	anische und Bioorganische	Chemie"			
08-OC2-GHR-092-	Organi	c Chem	istry 2 (te	aching	g degree for secon	dary schools)				
mo1	ECTS	7	Duration	1	1 semester	Method of grading nun	nerical grade	Modul level	undergraduate	
	Course	S	,	V + 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) 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).						
	Referre	d to in	LPO I	§ 42 (1) 2. Chemie "Organische und Bioorganische Chemie"						
08-BC-GHR-092-	Biochemistry (teaching degree for secondary schools)									
mo1	ECTS	4	Duratio	า	1 semester	Method of grading nun	nerical grade	Modul level	undergraduate	
	Course	S		V + Ü	(no information o	n SWS (weekly contact hour	rs) and course language av	vailable)		
	Method of assessment			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 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).						
	Referre	d to in	LPO I	§ 42	§ 42 (1) 2. Chemie "Organische und Bioorganische Chemie"					

08-AC1-LA-102-	Inorganic Chemistry 1 (teaching degree)											
mo1	ECTS 20	Duration	on 1 semester Method of grading numerical grade Modul level undergraduate									
	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 ass	sessment	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 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 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 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) or b) oral examination of one candidate each (approx. 20 minutes)									
	other prerequi	isites	 Language of assessment: German or English 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"									
Extra Skills Teachin (Freier Bereich (ger		subject-sp	specific electives) subject specific)									
o8-FD-WPF-	Guidance in S	elf-reliant	Scientific Work									
WA-092-m01	ECTS 2	Duration	on 1 semester Method of grading (not) successfully completed Modul level undergraduate									
	Courses		S (no information on SWS (weekly contact hours) and course language available)									
	Method of ass	sessment	presentation (approx. 30 minutes) Language of assessment: German or English									

o8-FD-WPF-PVGS-	Prepar	Preparation of Exams (Primary and Secondary Public Scholl Teachers)										
HS-092-m01	ECTS	2	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	·S		S (no	S (no information on SWS (weekly contact hours) and course language available)							
	Method	d of ass	essment	writte	vritten examination (approx. 30 minutes)							
o8-FD-WPF-	Extracı	urricula	Sites									
LLL-092-m01	ECTS	4	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Course		essment	•	This module comprises 2 module components. Information on courses will be listed separately for each module component. • 08-FD-WPF-LLL-1-092: S (no information on SWS (weekly contact hours) and course language available) • 08-FD-WPF-LLL-2-092: P (no information on SWS (weekly contact hours) and course language available) Assessment in this module comprises the assessments in the individual module components as specified below. Unless							
				Asses • • • Asses	sment in module co 2 ECTS, Method of presentation of a p Language of assessment in module co 2 ECTS, Method of successful supervise	mponent o8-FD-WPI grading: (not) succes roject (approx. 30 m sment: German or En	inutes) nglish F-LLL-2-092: School Lab ssfully completed in learn-teach-lab	•				