

Annex SFB

Studienfachbeschreibung (subject description, SFB) for the subject Chemistry as a Bachelor's with 1 major with the Degree (180 ECTS credits)

Responsible: Faculty of Chemistry and Pharmacy

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 Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not cre-

ditable 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.

modules in this SFB:

Examination regulations version: 2008

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

ASP02007

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

17-Nov-2009 (2008-34)

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	ECTS Durat		(in semesters)	Method of grading		Module level					
	Courses		To be spe	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	ssessm	ent									
	Only after su completion o		l if applica	ble								
	Other prereq	uisites	if applica	if applicable								
	Participants on of places		ocati- if applica	if applicable								
	Additional information		on if applica	if applicable								
	Referred to in	n LPO I	if applica	if applicable (examination regulations for teaching-degree programmes)								

Compulsory Cours	es (145 l	ECTS cre	edits)							
08-AC2-072-m01	Inorga	nic Che	mistry 2							
	ECTS	6	Duratio	1	1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Course	es	`	V (no	information on SWS	(weekly contact hours) and course language a	vailable)			
	Metho	d of ass	essment			ions (1 written examination: 90 minutes; 2 writt s each) or b) oral examination in groups (group				
08-AC3-072-m01	Inorga	nic Che	mistry 3				,			
	ECTS	9	Duratio	ı	1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Course	es		•	08-AC3-1-072: V +	module components. Information on courses v Ü (no information on SWS (weekly contact hour no information on SWS (weekly contact hours) a	rs) and course İangu	age available)		
	Method of assessment					le comprises the assessments in the individual sful completion of the module will require succ				
				Asses	4 ECTS, Method of a) 1 to 3 written ex written examinatio examination in gro sment in module co 5 ECTS, Method of Vortestate (pre-exp experiment exams	omponent o8-AC3-1-072: Elemental Organic Chargrading: numerical grade aminations (1 written examination: 90 minutes ons: 60 minutes each) or b) oral examination of oups (groups of 2, approx. 30 minutes) omponent o8-AC3-2-072: Inorganic Chemistry 2 grading: (not) successfully completed periment exams, approx. 15 minutes each), asses, approx. 15 minutes each) d: once a year, winter semester	; 2 written examinat one candidate each 2 (lab)	ions: 60 or 90 minutes each; 3 (approx. 20 minutes) or c) oral		
08-0C1-072-m01	Organi	ic Chem	istry 1				'			
	ECTS	5	Duratio	1	1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Course			V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Metho	d of ass	essment	written examination (90 minutes)						
	other p	orerequi	sites	Registration for assessment: Yes, as specified.						
08-0C2-072-m01	Organi	ic Chem	istry 2							
	ECTS	9	Duration		1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Course	_				on SWS (weekly contact hours) and course lang	<u> </u>			
	Metho	d of ass	of assessment a) 1 to 3 written examinations (1 written examination: 90 minutes; 2 written examinations: 60 or 90 minutes each; 3 written examinations: 60 minutes each) or b) oral examination in groups (groups of 2, approx. 30 minutes)							

08-0C3-072-m01	Organic Chemistry 3											
	ECTS	15	Duration	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	es .		•	This module comprises 2 module components. Information on courses will be listed separately for each module component. o8-OC3-1-072: V + Ü (no information on SWS (weekly contact hours) and course language available) o8-OC3-2-072: P (no information on SWS (weekly contact hours) and course language available)							
	Method	d of ass	essment		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.							
				Asses	 Assessment in module component o8-OC3-1-072: Organic Chemistry 3 Organic Chemistry 3 6 ECTS, Method of grading: numerical grade a) 1 to 3 written examinations (1 written examination: 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) Assessment in module component o8-OC3-2-072: Organic Chemistry - lab 1 9 ECTS, Method of grading: (not) successfully completed Vortestate (pre-experiment exams, approx. 15 minutes each), assessment of practical performance, Nachtestate (post-experiment exams, approx. 15 minutes each) 							
08-0C4-072-m01	Organic Chemistry 4											
	ECTS 10 Duratio			1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			This module comprises 2 module components. Information on courses will be listed separately for each module component. • 08-0C4-1-072: V + Ü (no information on SWS (weekly contact hours) and course language available) • 08-0C4-2-072: P (no information on SWS (weekly contact hours) and course language available)								
				Asses Asses	ssment in module of 5 ECTS, Method of written examination other prerequisites as ment in module of 5 ECTS, Method of Vortestate (pre-experiment exam Assessment offer	component o8-OC4-1- of grading: numerical grading: numerical grading: numerical grading: numerical grading: not of or as component o8-OC4-2 of grading: (not) succes (periment exams, app s, approx. 15 minutes red: once a year, winter	ssessment: Yes, as specified072: Organic Chemistry - adv ssfully completed rox. 15 minutes each), assessr each) er semester	sful completion of anic Chemistry 4 anced laboratory ment of practical p				
	other prerequisites			By way of exception, additional prerequisites are listed in the section on assessments.								
08-PC1-072-m01			_		echanics and spectroscopy							
	ECTS	8	Duration	,	1 semester	Method of grading		Modul level	undergraduate			
	Course						contact hours) and course la	<u> </u>				
	Method of assessment			a) 1 to 3 written examinations (1 written examination: 90 minutes; 2 written examinations: 60 or 90 minutes each; 3 written examinations: 60 minutes each) or b) oral examination in groups (groups of 2, approx. 30 minutes)								

l .	Physic	al Chen	nistry 2									
	ECTS 18 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-PC2-1-072: V + Ü (no information on SWS (weekly contact hours) and course language available) • 08-PC2-2-072: P (no information on SWS (weekly contact hours) and course language available)								
	Metho	d of ass	essment			dule comprises the assessments in the i essful completion of the module will req						
				Asses	Assessment in module component o8-PC2-1-072: Thermodynamics, Kinetics, Electrochemistry o g ECTS, Method of grading: numerical grade written examination (90 minutes) Other prerequisites: Registration for assessment: Yes, as specified. Assessment in module component o8-PC2-2-072: Physical Chemistry (lab) g ECTS, Method of grading: (not) successfully completed Vortestate (pre-experiment exams, approx. 15 minutes each), assessment of practical performance, Nachtestate (post-experiment exams, approx. 15 minutes each) Assessment offered: once a year, winter semester							
08-PC4-072-m01		rerequi		By way of exception, additional prerequisites are listed in the section on assessments. atistical Thermodynamics								
00-1 C4-0/2-11101	ECTS	3	Duration		1 semester	Method of grading numerical grade		Modul level	undergraduate			
	Course	1-	Buration		V + Ü (no information on SWS (weekly contact hours) and course language available)							
			essment	a) 1 to 3 written examinations (1 written examination: 90 minutes; 2 written examinations: 60 or 90 minutes each; 3 written examinations: 60 minutes each) or b) oral examination in groups (groups of 2, approx. 30 minutes)								
08-BC-072-m01	Bioche	mistry										
	ECTS 6 Duratio			n 1 semester Method of grading numerical grade Modul level undergraduate								
	Courses			V + Ü	$V + \ddot{U} + V + \ddot{U}$ (no information on SWS (weekly contact hours) and course language available)							
	Method of assessment			writte	n examination (9	o minutes)						
	other prerequisites			Regis	tration for assess	ment: Yes, as specified.						

10-M-MCB-072-	Mathematics for students in Chemistry and Biology											
mo1	ECTS 5 Duration			າ 1	ı semester	Method o	of grading	numerical grade		Modul level	undergraduate	
	Courses	3		• 1	This module comprises 2 module components. Information on courses will be listed separately for each module component. • 10-M-MCB-1-072: V (no information on SWS (weekly contact hours) and course language available) • 10-M-MCB-2-072: Ü (no information on SWS (weekly contact hours) and course language available)							
	Method	of asso	essment								ts as specified below. Unless f all individual assessments.	
				• Assess	 ssessment in module component 10-M-MCB-1-072: Mathematics for students in Chemistry and Biology 3 ECTS, Method of grading: numerical grade written examination (120 minutes) ssessment in module component 10-M-MCB-2-072: Exercises in Mathematics for students in Chemistry and Biology 2 ECTS, Method of grading: (not) successfully completed exercises (to be submitted on a weekly basis, written examination) 							
11-EFNF-072-m01	Introduc	ction to	Physics	for Stud	ents of Non-phy	/sics-related	Minor Subj	ects				
	ECTS	7	Duration	າ 2	2 semester	Method o	of grading	numerical grade		Modul level	undergraduate	
	Courses	;		V + V (n	V + V (no information on SWS (weekly contact hours) and course language available)							
	Method	Method of assessment			written examination (approx. 120 minutes)							
	Participa cation o			Only as	Only as part of pool of general key skills (ASQ): 10 places. Places will be allocated by lot.							
11-PFNF-072-m01	Practica	l Cours	se Physics	s for Stu	for Students of Non-physics-related Minor Subjects							
	ECTS	3	Duration	1 1	ı semester	Method o	of grading	(not) successfully	completed	Modul level	undergraduate	
	Courses	;		P (no in	formation on S\	NS (weekly co	ontact hour	s) and course lang	uage availa	ble)		
	Method	Method of assessment			a) oral test (approx. 15 minutes) during experiment and b) ungraded written examination (approx. 90 minutes)							
	Participants and allo- cation of places			Only as	part of pool of	general key s	kills (ASQ):	10 places. Places	will be alloc	ated by lot.		
08-PC3-082-m01	Physica	l and T	heoretica	l Chemi:	stry 3: Symmetr	y and Quantı	ım Chemist	ry				
	ECTS	6	Duration	າ 1	ı semester	Method o	of grading	numerical grade		Modul level	undergraduate	
	Courses	;		$V + \ddot{U} + V + \ddot{U}$ (no information on SWS (weekly contact hours) and course language available)								
	Method	of ass	essment	written examination (90 minutes)								
	other prerequisites			Registration for assessment: Yes, as specified.								
08-TC-082-m01	Theoret	ical Mo	dels in C									
	ECTS	3	Duration	າ 1	ı semester	Method o	of grading	numerical grade		Modul level	undergraduate	
	Courses	5		V + Ü (r	no information o	n SWS (week	ly contact h	ours) and course l	anguage av	ailable)		
	Method of assessment		essment	a) 1 to 3 examin	a) 1 to 3 written examinations (1 written examination: 90 minutes; 2 written examinations: 60 or 90 minutes each; 3 written examinations: 60 minutes each) or b) oral examination in groups (groups of 2, approx. 30 minutes)							

08-AC1-082-m01	Inorganic Chemistry 1												
	ECTS 21 Duration			1 semester	Method of grad	ding numerical grade	Modul l	level	undergraduate				
	Course	es		08-AC1-1-0708-AC1-2-07	 This module comprises 3 module components. Information on courses will be listed separately for each module components. o8-AC1-1-072: V + V + Ü (no information on SWS (weekly contact hours) and course language available) o8-AC1-2-072: P (no information on SWS (weekly contact hours) and course language available) o8-AC1-3-082: V (no information on SWS (weekly contact hours) and course language available) 								
	Metho	d of ass	essment		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-AC1-1-072: Principles of Inorganic Chemistry Principles of Inorganic Chemistry Principles of Inorganic Chemistry • 10 ECTS, Method of grading: numerical grade • a) 1 to 3 written examinations (1 written examination: 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) Assessment in module component o8-AC1-2-072: Inorganic Chemistry 1 (lab) • 7 ECTS, Method of grading: (not) successfully completed • Vortestate (pre-experiment exams, approx. 15 minutes each), assessment of practical performance, Nachtestate (post-experiment exams, approx. 15 minutes each) • Assessment offered: once a year, winter semester Assessment in module component o8-AC1-3-082: Inorganic Chemistry 1 (lab accompanying lecture) • 4 ECTS, Method of grading: numerical grade • 3 written examinations (45 minutes each), weighted 1:1:1, dates to be announced									
08-AN1-082-m01		_	mistry 1										
	ECTS	11	Duration			ding numerical grade	Modul l		undergraduate				
	Course	es		• 08-AN1-2-07	72: P (no information o	nents. Information on co n SWS (weekly contact h n on SWS (weekly conta	ours) and course lang	guage	tely for each module component. e available) lage available)				
	Method of assessment			Assessment in this stated otherwise, s	module comprises the successful completion	e assessments in the inc of the module will requi	ividual module comp e successful comple	oonen tion o	ts as specified below. Unless f all individual assessments.				
				 6 ECTS, Met Vortestate (jet per per iment) Assessment in mo 5 ECTS, Met a) 1 to 3 writh written examples 	hod of grading: (not) so ore-experiment exams, exams, approx. 15 mine offered: once a year, s dule component o8-AN hod of grading: numeri tten examinations (1 wi	approx. 15 minutes each utes each) ummer semester	nalytical Chemistry Printinutes; 2 written exa	rincipl aminat	performance, Nachtestate (post- les of Analytical Chemistry tions: 60 or 90 minutes each; 3 1 (approx. 20 minutes) or c) oral				

Compulsory Electi	ves (5 ECTS credits)								
08-PS3-072-m01	Applied Spectroscopy								
	ECTS 5 Duration	n 1 semester Method of grading numerical grade Modul level undergraduate							
	Courses	V (no information on SWS (weekly contact hours) and course language available)							
	Method of assessment	written examination (60 minutes)							
	other prerequisites	Registration for assessment: Yes, as specified.							
08-PKC-072-m01	Programming course for	r Chemistry Majors							
	ECTS 5 Duration	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 assessment	practical examination: completion of programming exercises							
	other prerequisites	Registration for assessment: Yes, as specified.							
08-BCP-072-m01	Biochemistry Lab								
	ECTS 5 Duration	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 assessment	Vortestate (pre-experiment exams, approx. 15 minutes each), assessment of practical performance (log approx. 5 to 10 pages),							
		Nachtestate (post-experiment exams, approx. 15 minutes each)							
Thesis (10 ECTS cr	edits)								
08-BA-072-m01	Bachelor Thesis								
	ECTS 10 Duration	n 1 semester Method of grading numerical grade Modul level undergraduate							
	Courses	no courses assigned							
	Method of assessment	written thesis							
		Language of assessment: German or English							
	other prerequisites	Registration for assessment on a continuous basis as agreed upon with supervisor. Topic to be selected in consultation with supervisor. Topic to be assigned by examination committee (Section 21 Subsection 3 ASPO (general academic and examinati-							
		on regulations)).							
Subject-specific K	ey Skills (10 ECTS credits								
08-VP-072-m01	Advanced laboratory co	irse							
	ECTS 5 Duration	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 assessment	talk (approx. 15 minutes)							
03-TR-072-m01	Toxicology and legal st	udies							
	ECTS 3 Duration								
	Courses	V + V (no information on SWS (weekly contact hours) and course language available)							
	Method of assessment	written examination (approx. 90 minutes)							

08-LRAC-072-m01	Literatu	Literature research methods											
	ECTS	1	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate				
	Course	S Ü (no information on SWS (weekly contact hours) and course language available)											
	Method	Nethod of assessment 2 literature searches about given preparations											
08-LROC-072-m01	Literatı	ure rese	arch met	hods				,					
	ECTS 1 Duration			ı	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate				
	Course	S		Ü (no information on SWS (weekly contact hours) and course language available)									
	Method	d of asse	essment	1 litera	ature search about g	iven preparations							