

## **Annex SFB**

## Studienfachbeschreibung (subject description, SFB) for the subject FOKUS Chemistry as a Bachelor's with 1 major with the degree "Bachelor of Science" (180 ECTS credits)

Responsible: Faculty of Chemistry and Pharmacy

Examination regulations version: 2011

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:

## ASP02009

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

## 29-Aug-2011 (2011-71)

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 Durati		(in semesters)	Method of grading		Module level				
	Courses		To be sp	ecified in the form X	(y) with course type ?	(abbreviated as specified abo	ve and number of we	ekly contact hours y			
	Method of as	sessm	ent								
	Only after su completion o		ıl if applic	if applicable							
	Other prereq	uisites	if applic	able							
	Participants on of places		ocati- if applic	able							
	Additional in	format	ion if applic	if applicable							
	Referred to in	1 LPO I	if applic	if applicable (examination regulations for teaching-degree programmes)							

Compulsory Course	es (150 ECTS cre	edits)							
General and Inorga	nic Chemistry (	(47 ECTS c	redits)						
08-AC1-102-m01	Inorganic Che	mistry 1	<u> </u>						
	ECTS 21	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses  Method of ass	sessment	•	08-AC1-1-102: V + V 08-AC1-2-102: P (no 08-AC1-3-102: V (no 08-AC1-4-102: P (no	/ + Ü (no information o information on lang o information on lang o information on lang	on language and num guage and number of w guage and number of w guage and number of w	ately for each componen ber of weekly contact ho weekly contact hours ava weekly contact hours ava weekly contact hours ava ated otherwise, students	urs available) ilable) ilable) ilable)	
	Method of ass	sessment	Asses ments  Asses ciples	sment in module co 6 ECTS credits, pas pre/post-experimer Assessment offered Language of assess Only after successf who successfully co sment in module co Performed in Lab C 4 ECTS credits, nun a) 1 to 3 written ex (approx. 20 minute Language of assess sment in module co 1 ECTS credit, pass Assessment of prace Language of assess sment in module co of General and Inor 10 ECTS credits, nu a) 1 to 3 written exa minutes each, 3 wr minutes) or c) oral Language of assess Additional prerequi classes as specifie	mponent o8-AC1-2-1 is / fail int examination talks d: once a year, winte sment: German, Engl ul completion of mod ompleted module co imponent o8-AC1-3-1 ourse Inorganic Chei nerical grading kaminations (approx is) or x) oral examinations; sment: German, Engl imponent o8-AC1-4-1 / fail ctical assignments sment: German, Engl imponent o8-AC1-1-1 granic Chemistry) merical grading aminations (1 written ritten examinations: examination in group sment: German or En isites: admission pred d at the beginning o	a whole.  o2: Praktikum Anorgan (Vor-/Nachtestate, ap r semester ish dule components: Mod mponent o8-AC1-4. o2: Erläuterungen zum mistry 1)  . 45, 60 or 90 minute tion in groups of 2 can ish o2: Sicheres Arbeiten  ish examination: approx. 60 minutes each) or b os of 2 candidates (app glish requisite to assessment f the course (usually 7	nische Chemie 1 (Lab Corprox. 15 minutes each), lule component o8-AC1-2 praktikum Anorganisch seach) or x) oral examididates (approx. 30 minutes) oral examination of orox. 30 minutes) oral examination of orox. 30 minutes)	rien (Chemical Laboratory Safety) schen Chemie (Fundamental Prin- kaminations: 60 minutes or 90 ne candidate each (approx. 20 n of exercises in the respective uccessfully completed) as well	
	other prerequi	isites	By way of exception, additional prerequisites are listed in the section on assessments.						
	other prerequisites Referred to in LPO I						sikalische und Analytisch lische und Analytische C		

08-AC2-102-m01	Inorganic Chemistry 2										
	ECTS	6 1	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S	V + V	V + V (no information on SWS (weekly contact hours) and course language available)							
	Method	d of asses	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							
08-AC3-102-m01	Inorgar	nic Chemi	stry 3								
	ECTS	9 1	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		nis module comprises 2 module components. Information on courses will be listed separately for each module component.  • 08-AC3-1-102: V + Ü (no information on SWS (weekly contact hours) and course language available)  • 08-AC3-2-102: P (no information on SWS (weekly contact hours) and course language available)							
	Method	or asses	Asses	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-AC3-1-102: Elemental Organic Chemistry Elemental Organic Chemistry  4 ECTS, Method of grading: numerical grade  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  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-AC3-2-102: Inorganic Chemistry 2 (lab)  5 ECTS, Method of grading: (not) successfully completed  pre/post-experiment examination talks (Vor-/Nachtestate, approx. 15 minutes each), log (approx. 5 to 10 pages)							
	Module comple	es succes:	sfully 08-A0	• Language of assessment: German, English  o8-AC1 (module component o8-AC1-4 only) and o8-OC3 (module component o8-OC3-2 only)							
	other p	rerequisit	tes By wa	ay of exception, add	itional prerequisites	are listed in the section on asse	essments.				

08-AS1-102-m01	Chemis	Chemistry of the Elements and Analytical Chemistry										
	ECTS	11	Duration		1 semester	Method of grading   numerical grade	M	lodul level	undergraduate			
	Course	S		•	This module comprises 2 module components. Information on courses will be listed separately for each module component.  • 08-AN1-2-102: P (no information on SWS (weekly contact hours) and course language available)  • 08-AS1-1-102: V + V (no information on SWS (weekly contact hours) and course language available)							
	Method of assessment		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.							
				<ul> <li>Assessment in module component o8-AN1-2-102: Analytical Chemistry (lab)</li> <li>5 ECTS, Method of grading: (not) successfully completed</li> <li>Vortestate (pre-experiment exams), assessment of practical performance, Nachtestate (post-experiment exams), log (5 to 10 pages)</li> <li>Assessment offered: once a year, summer semester</li> <li>Language of assessment: German, English</li> <li>Assessment in module component o8-AS1-1-102: Chemistry of the elements Chemistry of the elements</li> <li>6 ECTS, Method of grading: numerical grade</li> <li>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)</li> <li>Language of assessment: German or English</li> </ul>								
	comple	es succe eted				ent o8-AC1-4 only) and o8-OC3 (module o	•					
	Referre	d to in L	.PO I	§ 62 (1) 1. Chemie "Allgemeine und Anorganische Chemie"; "Physikalische und Analytische Chemie"								
Organic Chemistry	(39 ECT	S credits	s)									
08-0C1-092-m01	Organi	c Chemi	stry 1									
	ECTS	5	Duration		1 semester	Method of grading   numerical grade		lodul level	undergraduate			
	Course					SWS (weekly contact hours) and course la						
	other prerequisites Anni			writte		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)						
				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 L	PO I	§ 62 (	1) 2. Chemie "Orgar	nische und Bioorganische Chemie"						

08-0C2-102-m01	Organic Chemistry 2											
	ECTS	9	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	S		V + V	/ + V + Ü (no information on SWS (weekly contact hours) and course language available)							
	Method of assessment			each; c) ora	3 written examina Il examination in gr	ations (1 written examination: approx. 90 min tions: approx. 60 minutes each) or b) oral ex roups (groups of 2, approx. 30 minutes) t: German, English						
	Module comple		essfully	08-00	C1							
	other prerequisites			ning	of the course (usua	to assessment: successful completion of ex- Illy 70% of exercises to be successfully comp ts of unexcused absence).						
08-0C3-102-m01	Organic Chemistry 3											
	ECTS 15 Duratio			n	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-OC3-1-102: V + Ü (no information on SWS (weekly contact hours) and course language available)  • 08-OC3-2-102: 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	6 ECTS, Method of a) 1 to 3 written e minutes each; 3 w 20 minutes) or c) Language of asse Other prerequisite ses as specified a regular attendance sement in module of pre/post-experimed Assessment offer Language of asse	component o8-OC3-1-102: Organic Chemistrof grading: numerical grade examinations (1 written examination: approximation examinations: approx. 60 minutes each oral examination in groups (groups of 2, appressment: German, English es: Admission prerequisite to assessment: state the beginning of the course (usually 70% are of exercises (usually a maximum of 2 incident of grading: (not) successfully completed then examination talks (Vor-/Nachtestate, appressment: German, English	a. 90 minutes; 2 written en ch) or b) or al examination prox. 30 minutes)  uccessful completion of c	exercises in the respective classessfully completed) as well as ence).				
	comple	eted	essfully	may b	pe replaced by 08-0			oonent o8-AN1-2 only), o8-OC1				
	other p	rerequi	sites	By wa	ay of exception, add	ditional prerequisites are listed in the sectio	n on assessments.					

08-0C4-102-m01	Organi	c Chemi	istry 4				,					
	ECTS	10	Duratio	n	1 semester	Method of gr	ading num	erical grade		Modul level	undergraduate	
	Course	S	,		This module comprises 2 module components. Information on courses will be listed separately for each module component.  • 08-OC4-1-102: V + Ü (no information on SWS (weekly contact hours) and course language available)  • 08-OC4-2-102: P (no information on SWS (weekly contact hours) and course language available)							
	Method	:hod of assessment									s as specified below. Unless all individual assessments.	
				<ul> <li>Assessment in module component o8-OC4-1-102: Organic Chemistry 4 Organic Chemistry 4</li> <li>5 ECTS, Method of grading: numerical grade</li> <li>a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examination in groups (groups of 2, approx. 30 minutes)</li> <li>Language of assessment: German or English</li> <li>Only after successful completion of module components: o8-OC1 or o8-OC1-GHR</li> <li>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).</li> <li>Assessment in module component o8-OC4-2-102: Organic Chemistry - advanced laboratory course for students of chemistry</li> <li>5 ECTS, Method of grading: (not) successfully completed</li> <li>pre/post-experiment examination talks (Vor-/Nachtestate, approx. 15 minutes each), log (approx. 5 to 10 pages)</li> <li>Assessment offered: once a year, winter semester</li> <li>Language of assessment: German, English</li> <li>Only after successful completion of module components: o8-OC3 (module component o8-OC3-2 only) or o8-OC3P</li> </ul>								
		rerequis			<del></del>	dditional prerequ			n on asse	ssments.		
	L	d to in L				ganische und Bio	organische (	Chemie"				
Physical and Theor			,	S credi	ts)							
08-PC1-092-m01	Physica		- ·									
		8	Duratio		1 semester	Method of gr	_			Modul level	undergraduate	
	Course					nation on SWS (w		<u> </u>				
	Method of assessment other prerequisites			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)								
				ning o	of the course (usu		ises to be s				classes as specified at the begin- rattendance of exercises (usually	

08-PC2-092-m01	Physica	al Chen	nistry 2: Tl	nermodynaı	mics, Kinetics	s, Electrochemistry					
	ECTS	18	Duration	1 se	mester	Method of grading numerical grade		Modul level	undergraduate		
	Course	S		• o8-F	<ul> <li>This module comprises 2 module components. Information on courses will be listed separately for each module component.</li> <li>o8-PC2-2-092: P (no information on SWS (weekly contact hours) and course language available)</li> <li>o8-PC2-1-092: V + Ü (no information on SWS (weekly contact hours) and course language available)</li> </ul>						
	Method of assessment		sessment	Assessmer stated other	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.						
				<ul> <li>Assessment in module component o8-PC2-2-092: Physical Chemistry (lab)</li> <li>9 ECTS, Method of grading: (not) successfully completed</li> <li>Vortestate (pre-experiment exams, approx. 15 minutes each), assessment of practical performance, Nachtestate (post-experiment exams, approx. 15 minutes each)</li> <li>Assessment offered: once a year, winter semester</li> <li>Only after successful completion of module components: o8-PC1-1 or o8-PC2-1</li> <li>Assessment in module component o8-PC2-1-092: Thermodynamics, Kinetics, Electrochemistry Thermodynamics, Kinetics, Electrochemistry</li> <li>9 ECTS, Method of grading: numerical grade</li> <li>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)</li> <li>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</li> </ul>							
	other p	rerequi	isites	regular attendance of exercises (usually a maximum of 2 incidents of unexcused absence).  By way of exception, additional prerequisites are listed in the section on assessments.							
	Referre			§ 62 (1) 1. Chemie "Allgemeine und Anorganische Chemie"; "Physikalische und Analytische Chemie"							
08-PC3-092-m01	Physica	al and 1	Theoretica	l Chemistry	3: Symmetry	and Quantum Chemistry					
	ECTS	6	Duration	ı 1 se	mester	Method of grading   numerical grade		Modul level	undergraduate		
	Course					ation on SWS (weekly contact hours) and					
	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 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-PC4-092-m01	Physical Chemistry 4: Statistical Thermodynamics											
	ECTS 3	Duratio	n	1 semester	Method of gradi	ng numerical grade		Modul level	undergraduate			
	Courses		V + Ü	(no information o	n SWS (weekly conta	act hours) and course	language av	ailable)				
	Method of as	sessment	each;	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 prerequ	isites	ning o	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-TC-092-m01	Theoretical M	Theoretical Models in Chemistry										
	ECTS 3	Duratio	n	1 semester	Method of gradi	ng numerical grade		Modul level	undergraduate			
	Courses	•	V + Ü	(no information o	n SWS (weekly conta	act hours) and course	language av	ailable)				
	Method of as	sessment	each;	3 written examina		ninutes each) or b) ora			itions: approx. 60 or 90 minutes date each (approx. 20 minutes) or			
	other prerequ	isites	ning o	of the course (usu		s to be successfully c			classes as specified at the begin- r attendance of exercises (usually			
Basics of Natural	Sciences (21 EC	TS credits)										
08-BC-092-m01	Biochemistry											
	ECTS 6	Duratio	n	2 semester	Method of gradi	ng numerical grade		Modul level	undergraduate			
	Courses		V + Ü	+ V + Ü (no inform	nation on SWS (week	dy contact hours) and	d course langi	uage available)				
	Method of as	sessment	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 prerequ	iisites	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).									
10-M-MCB-101-	Mathematics	for studen	ts in Cl	hemistry and Bio	logy			'				
mo1	ECTS 5	Duratio	n	1 semester	Method of gradi	ng numerical grade		Modul level	undergraduate			
	Courses		V + Ü	(no information o	n SWS (weekly conta	act hours) and course	language av	ailable)				
	Method of as	sessment	writte	n examination (a)	pprox. 90 to 120 min	utes)						
	other prerequ		cordar (e. g. s tails a assess turer v in the	nce with the spec successful compl at the beginning o sment. If students will put their regis current or in the	cified registration dea letion of a certain per of the course. Registra is have obtained the stration for assessme	adlines. Certain prere rcentage of exercises) ation for the exercise qualification for admi ent into effect. Studen er. For assessment at o register anew, too.	equisites mus i). The lecturer will be considusion to assents who meet a later date, s	It be met to qua r will inform stu dered a declara essment over th all prerequisite students will ha	as announced by the lecturer in ac- alify for admission to assessment adents about the respective de- ation of will to seek admission to the course of the semester, the lec- es will be admitted to assessment have to obtain the qualification for			
Bachelor's with 1 major	FOKUS Chemistry (20	11)				JMU Würzburg • ge	enerated 26-Aug-20	o24 • exam. reg. data	record 82 f78 - - H 2011 page 9 / 11			

11-EFNF-072-m01		for Students of Non-ph	ysics-related Minor Subjects						
	ECTS 7 Duratio		Method of grading   numerical grade	Modul level	undergraduate				
	Courses		V + V (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment		written examination (approx. 120 minutes)						
	Participants and allo- cation of places	Only as part of pool of	Only as part of pool of general key skills (ASQ): 10 places. Places will be allocated by lot.						
11-PFNF-072-m01	Practical Course Physic	s for Students of Non-p	for Students of Non-physics-related Minor Subjects						
	ECTS 3 Duration	n 1 semester	Method of grading (not) successfully comp	oleted Modul level	undergraduate				
	Courses	P (no information on S	SWS (weekly contact hours) and course language	available)					
	Method of assessment	a) oral test (approx. 15	minutes) during experiment and b) ungraded w	ritten examination (ap	pprox. 90 minutes)				
	Participants and allo- cation of places	Only as part of pool of	general key skills (ASQ): 10 places. Places will b	e allocated by lot.					
Scientific Discussi	ion (5 ECTS credits)								
o8-WD-FO-	Scientific Discussion								
KUS-112-m01	ECTS 5 Duratio	n 1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Courses	Ü (no information on S	SWS (weekly contact hours) and course language	available)					
	Method of assessment		one candidate each (approx. 45 minutes) or b) 2 oral examinations of one candidate each (approx ent: German, English		one candidate each (approx. 30				
	Modules successfully completed	Where applicable, specific modules/module components as specified by supervisor (cf. Section 12 Subsection 4 FSB (subject-specific provisions)).							
Thesis (10 ECTS cr	edits)								
o8-BA-FO-	Bachelor Thesis FOKUS	Chemistry							
KUS-112-m01	ECTS 10 Duratio		Method of grading numerical grade	Modul level	undergraduate				
	Courses	no courses assigned			-				
	Method of assessment		written thesis (approx. 40 pages) Language of assessment: German, English						
	Modules successfully completed	Where applicable, specific modules/module components as specified by supervisor (cf. Section 15 Subsection 2 FSB (subject-specific provisions)).							
	Additional Information	Additional information	n on module duration: 8 weeks.						
Subject-specific K	ey Skills (17 ECTS credits	)							
Compulsory Cours	ses (8 ECTS credits)								
03-TR-072-m01	Toxicology and legal st	udies							
-	ECTS 3 Duratio		Method of grading numerical grade	Modul level	undergraduate				
	Courses	V + V (no information	on SWS (weekly contact hours) and course langu	age available)	-				
	Method of assessment	Method of assessment   written examination (approx. 90 minutes)							
			· · · · · · · · · · · · · · · · · · ·						

08-PKC-102-m01	Programm	ing course fo	r Chem	istry Major							
	ECTS 5	Duratio	n	1 semester	Method of grading (not) successfully completed	Modul level	undergraduate				
	Courses	·	S + Ü	(no information on S	SWS (weekly contact hours) and course language	available)					
	Method of	assessment		cal examination: collage of assessment:	mpletion of programming exercises and oral desc German, English	iption of algorith	nms used				
	other prer	equisites	ning o	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).							
Compulsory Elective	es (9 ECTS	credits)									
08-FOP-112-m01	Advanced	research lab	course								
	ECTS 9	Duratio	n	1 semester	Method of grading (not) successfully completed	d Modul level	undergraduate				
	Courses		P (no	(no information on SWS (weekly contact hours) and course language available)							
	Method of	assessment		talk (approx. 15 minutes) or written report (approx. 10 to 20 pages) Language of assessment: German, English							
	Additional	Information	Addit	ional information on	module duration: 8 weeks.						
08-FAP-112-m01	FOKUS Foreign Studies										
	ECTS 9	Duratio	n	1 semester	Method of grading (not) successfully completed	d Modul level	undergraduate				
	Courses		P (no	P (no information on SWS (weekly contact hours) and course language available)							
	Method of	assessment		talk (approx. 15 minutes) or written report (approx. 10 to 20 pages) Language of assessment: German, English							
	Additional	Information	Addit	Additional information on module duration: 8 weeks.							
08-FIP-112-m01	FOKUS Inc	lustrial work	experie	experience							
	ECTS 9	Duratio	n	1 semester	Method of grading (not) successfully completed	d Modul level	undergraduate				
	Courses		P (no	P (no information on SWS (weekly contact hours) and course language available)							
	Method of	assessment		talk (approx. 15 minutes) or written report (approx. 10 to 20 pages) Language of assessment: German, English							
	Additional	Information	Addit	ional information on	module duration: 8 weeks.						