

Responsible: Faculty of Chemistry and Pharmacy



Annex SFB

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

Responsible. raculty	or chemistry and rinamacy	
Abbreviations used:	Course types: E = field trip, K = colloquium, O = conversatorium, P = pl = lecture	acement/lab course, R = project, S = seminar, T = tutorial, Ü = exercise, V
	Term: SS = summer semester, WS = winter semester	
	Methods of grading: NUM = numerical grade, B/NB = (not) successfull	/ completed
	Regulations: (L)ASPO = general academic and examination regulations = list of modules	(for teaching-degree programmes), FSB = subject-specific provisions, SFB
	Other: A = thesis, LV = course(s), PL = assessment(s), TN = participant	s, VL = prerequisite(s)
Conventions for the modules in this SFB:	Unless otherwise stated, courses and assessments will be held in Gern ditable for bonus.	nan, assessments will be offered every semester and modules are not cre-
Information on assessment procedures:	Should there be the option to choose between several methods of asse thod of assessment to be used in the current semester by two weeks a customary manner.	
	Should a module comprise more than one graded assessment, all asse	ssments will be equally weighted, unless otherwise stated below.
	Should the assessment comprise several individual assessments, succ individual assessments.	essful completion of the module will require successful completion of all

Examination regulations version: 2015

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

ASPO2015

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

22-Jul-2015 (2015-34)

??-???-2024 (2024-??)

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	D	uration	(in semesters)	Method of grading	Module level	
	Courses		To be spe	cified in the form >	((y) with course type ک	Cabbreviated as specified above and number of we	ekly contact hours y
	Method of as	sessmer	nt				
	Only after su completion o		if applica	ble			
	Other prereq	uisites	if applica	ble			
	Participants on of places		ati- if applica	ble			
	Additional in	formatio	n if applica	ble			
	Referred to ir	n LPO I	if applica	ble (examination re	egulations for teaching	g-degree programmes)	

	es (150 ECTS credits)		TE crodite)								
08-AC1-152-m01	nd Inorganic Chemistry (47 ECTS credits) Principles of Inorganic Chemistry										
08-AC1-152-11101		ation	1 semester	Method of grading nume	rical grade	Modul level	undergraduate				
	Courses		(1) = 1 Semester (1)			Modulitevel	undergraduate				
		ent a) v b) c c) c d) l e) p	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English								
	Additional Informat		ording to § 2 para. nex 2 to the APOLm(unction with No. I 2nd	letter a) of annex	1 to the APOLmCh and No. 1 of				
	Referred to in LPO I		2 Nr. 1 and § 22 2 Nr. 1	Nr. 1 h)							
08-ACP1-152-m01											
	ECTS 10 Dui	ation	1 semester	Method of grading (not)	successfully complete	d Modul level	undergraduate				
	Courses	P (1	2) + S (2)								
	Method of assessm	exa (ap app Lan	mination in groups prox. 30 minutes)] a prox. 5 to 10 pages e guage of assessme	of up to 3 candidates (approx.	. 15 minutes per candio re and post-experimer	date) or d) log (ap nt examination tal	each (20 to 30 minutes) or c) oral prox. 20 pages) or e) presentation ks approx. 15 minutes each, log nations)				
	Additional Informat		ording to § 2 para. : 2 to the APOLmCh	2 sentence 2 APOLmCh in conj	unction with No. I 1st l	letter a) of annex	1 to the APOLmCh and No. 1 of an-				
08-AS1-152-m01	Inorganic Chemistr	y of the E	lements								
	ECTS 6 Dui	ation	1 semester	Method of grading nume	rical grade	Modul level	undergraduate				
	Courses	V (2	2) + V (2)				_				
		b) c c) c d) l e) p Lan	oral examination of oral examination in g og (approx. 20 page oresentation (appro. guage of assessme	x. 30 minutes) nt: German and/or English	minutes) or approx. 15 minutes per	·					
	Additional Informat	anr	according to § 2 para. 2 sentence 2 APOLmCh in conjunction with No. I 2nd letter a) of annex 1 to the APOLmCh and No. 1 of annex 2 to the APOLmCh								
	Referred to in LPO I	§ 6	2 Nr. 1								

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08-ANP-152-m01	Analytical Cl	hemistry (la	ib)						
	ECTS 6	Duratio	n	1 semester	Method of grading (not) succe	essfully completed	Modul level	undergraduate	
	Courses		P (12)	+ S (1)					
	Method of as	ssessment					15 minutes each	n, log approx. 5 to 10 pages each)	
			and assessment of practical performance (2 to 4 random examinations) Language of assessment: German and/or English						
				Assessment offered: Once a year, summer semester					
	Additional Information according to § 2 para. 2 sentence 2 APOLmCh in conjunction with No. I 1st letter a) of annex 1 to the APOLmCh nex 2 to the APOLmCh							to the APOLmCh and No. 1 of an-	
08-ACP2-152-m01	Inorganic Ch	1 nemistry 2 (lab)						
	ECTS 5	Duratio	n	1 semester	Method of grading (not) succe	essfully completed	Modul level	undergraduate	
	Courses		P (12)						
	Method of as	ssessment					15 minutes each	n, log approx. 5 to 10 pages each)	
			Langu	lage of assessment:	cal performance (2 to 4 random e German and/or English	examinations)			
	Modules successfully completed (08-ACP1 or 08-ACP1-BC) and 08-AC1 and 08-AS1								
08-AC-FSE-152-	Solid State (olid State Chemistry, Spectroscopic Methods, Organoelement Chemistry							
m01	ECTS 12 Duration		n	2 semester	Method of grading numerical	grade	Modul level	undergraduate	
	Courses		V (2) ·	+ V (2) + V (3) + Ü (1)	<u> </u>				
	Method of as	ssessment	a) wri	a) written examination (approx. 90 to 180 minutes) or					
			b) ora	l examination of one	of one candidate each (20 to 30 minutes) or in groups of up to 3 candidates (approx. 15 minutes per candidate) or				
			d) log	(approx. 20 pages)	or	ix. 15 minutes per c	anuluale) of		
			e) pre	sentation (approx.	. 30 minutes)				
				lage of assessment:	German and/or English				
Subfield Organic C	hemistry (40	ECTS credit	s)						
08-0C1-152-m01	Organic Che	mistry 1							
	ECTS 5	Duratio		1 semester	Method of grading numerical	grade	Modul level	undergraduate	
	Courses		V (3) -						
	Method of as	ssessment	a) wri	tten examination (a	pprox. 90 to 180 minutes) or				
					e candidate each (20 to 30 minu uns of un to 2 candidates (appro		andidate) or		
				c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or					
			e) pre	sentation (approx.	o minutes)				
			-		German and/or English				
	Additional Ir	nformation		ding to § 2 para. 2 s < 2 to the APOLmCh	entence 2 APOLmCh in conjuncti	on with No. I 2nd le	tter b) of annex	1 to the APOLmCh and No. 2 of	
	Referred to i	n LPO I	§ 62	Nr. 2					

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08-0C2-152-m01	Organie	ganic Chemistry 2 and analytical methods in organic chemistry									
	ECTS	9	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses	5		V (3) -	(3) + Ü (1) + V (2)						
	Method	l of asse	essment			pprox. 90 to 180 minu					
						e candidate each (20					
					(approx. 20 pages)		ips of up to 3 candidates (approx. 15 minutes per candidate) or				
	e) presentation (approx. 30 minutes) Language of assessment: German and/or English										
08-0CP1-152-m01	Organio	c Chemi	stry - lab	1							
	ECTS	8	Duratio	1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Courses	5		P (14)	(14)						
	Method of assessment							15 minutes each	n, log approx. 5 to 10 pages each)		
				and assessment of practical performance (2 to 4 random examinations) Language of assessment: German and/or English							
	Modules successfully			-	age of assessment.		1511				
	completed			08-00							
08-0CP2-152-m01	Organio	ganic Chemistry - advanced laboratory course for students of chemistry									
	ECTS	5	Duratio	1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Courses	5		P (11)							
	Method	Method of assessment			Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical performance (2 to 4 random examinations)						
	Modules successfully			Language of assessment: German and/or English o8-OC2 and (o8-OCP1 or OCP1-BC)							
	comple		SSIUlty	00 00							
08-0C3+4-152-	Organie	: Chemi	stry 3 & A	ì							
mo1	ECTS	13	Duratio	า	2 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses	5		V (2) -	+ Ü (2) + V (2) + Ü (2)) + S (1)					
	Method	lofasse	essment			pprox. 90 to 180 minu					
						e candidate each (20					
					l examination in gro (approx. 20 pages)		ates (approx. 15 minutes per ca	andidate) or			
					sentation (approx. 20						
				Language of assessment: German and/or English							

Subfield Physical	and Theo	oretical	Chemistry	y (40 E	CTS credits)					
08-PC-QMS-152-	Princip	oles of q	uantum n	nechar	echanics and spectroscopy					
m01	ECTS	TS 10 Duration			1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Course	25	- F	V (4)	V(4) + U(2) + V(2)					
	Metho	d of asse	essment	b) ora c) ora d) log e) pre Langi	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English creditable for bonus					
08-PC-TKE-152-	Thermo	ermodynamics, Kinetics, Electrochemistry								
mo1	ECTS	9	Duratio	1	1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Course	es	<u>.</u>	V (4)	+ Ü (2)					
	Metho	d of asse	essment	b) ora c) ora d) log e) pre Langu	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English creditable for bonus					
	Referre	ed to in L	.PO I	§ 62	Nr. 1					
08-PCP-152-m01	Physic	al Chem	istry (lab)						
	ECTS	9	Duratio	n	1 semester	Method of grading (not) successfully completed	Modul level	undergraduate		
	Course	es		P (6)						
	Method of assessment			Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical performance (2 to 4 random examinations) Language of assessment: German and/or English						
				08-PC-QMS or 08-PC-TKE						

08-TC-152-m01	Quant	Quantum Chemistry									
	ECTS	3	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Course	es		V (2)	$V(2) + \ddot{U}(1)$						
	Metho	d of ass	sessment								
				b) oral examination of one candidate each (20 to 30 minutes) or							
					c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes)						
					Language of assessment: German and/or English						
					creditable for bonus						
	Referre	ed to in	LPO I		ll Nr. 1 h)						
					§ 22 Nr. 2 f) § 22 Nr. 3 f)						
08-PC-SBL-152-	Symm	etry, ch	emical bo								
mo1	ECTS	9	Duratio		2 semester	Method of grading numerical grade	Modul level	undergraduate			
	Course	es		V (3)	V (3) + Ü (2) + V (2) + Ü (2)						
	Metho	d of ass	sessment	a) written examination (approx. 90 to 180 minutes) or							
				b) oral examination of one candidate each (20 to 30 minutes) or							
				c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or							
				e) presentation (approx. 30 minutes)							
				Language of assessment: German and/or English							
Subfield Basics of	f Natural	Science	es (23 ECT	S cred	credits)						
08-BC1-152-m01	Biochemistry 1										
	ECTS			n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Course	es		$V(2) + \ddot{U}(1)$							
	Metho	d of ass	sessment	written examination (approx. 60 to 90 minutes)							
	Additio	Additional Information			according to § 2 para. 2 sentence 2 APOLmCh in conjunction with No. II 2nd letter e) and No. II 1st letter c) of annex 1 to the APOLmCh and No. 3 of annex 3 to the APOLmCh						
	Referre	Referred to in LPO I			§ 42 l Nr. 2						
				§ 62 Nr. 2							
10-M-MCB-152-	Mathe	matics	for studer	nts in Chemistry and Biology							
m01	ECTS				1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Course	es		V (3)	+ Ü (2)						
	Metho	d of ass	sessment			pprox. 90 to 120 minutes) and written exercises					
	Additio	onal Inf	ormation			Subsection 2 Sentence 2 Verordnung über die Au					
						nd Lebensmittelchemiker (Regulation on the tra		n of state-certified food chemists,			
				APUL	mcn) in conjunct	ion with No. I 2. Letter f) of Annex 1 of APOLmCh.					

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11-EFNF-152-m01	Introduction to Physics for Students of other Disciplines									
	ECTS 7	Duratio	n	2 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V (4) +	(4) + V(3)						
	Method of assessment written examination (60 to 120 minutes)									
	Additional Info	ormation			entence 2 APOLmCh i nex 2 to the APOLmC		etter d) and No.	l 1st letter d) of annex 1 to the		
11-PFNF-152-m01	Laboratory Co	urse Phys	ics for	Students of other D	visciplines					
	ECTS 3	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Courses		P (4)							
	Method of ass	essment	tes). Each e	a) practical assignment with oral test (approx. 15 minutes, during experiments) and b) written examination (approx. 90 minu- tes). Each experiment comprises preparation, performance and evaluation. Test as well as performance of experiments can each be repeated once.						
	Participants ar cation of place	es		nly as part of pool of general transferable skills (ASQ): 10 places (lottery)						
	Additional Info	ormation			entence 2 APOLmCh i nex 2 to the APOLmC		etter d) and No.	l 1st letter d) of annex 1 to the		
03-TR-152-m01	Toxicology and	d legal st	udies							
	ECTS 3	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V (1) +	- V (1)						
	Method of ass	essment		n examination (app	-					
	Additional Info	ormation			entence 2 APOLmCh i nd 6 of annex 3 to the		etter g) and i) a	nd No. II 1st letter d) of annex 1 to		
	Referred to in I	LPO I	§ 22	Nr. 1 h) Nr. 2 f) Nr. 3 f)						
Key Skills Area (20	ECTS credits)									
General Key Skills Students may selec			t of the	e pool of general trai	nsferable skills (ASQ)	of JMU.				
Subject-specific Ke	y Skills (15 ECT	S credits)								
Subject-specific Ke				; ECTS credits)						
08-VP-152-m01	Advanced labo	oratory co	urse							
	ECTS 5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Courses		P (10)							
	Method of ass	essment		approx. 15 minutes)						
			-		German and/or Engli					
	Additional Info	rmation	Additi	onal information on	module duration: blo	ock placement / block taught	practical course	with a duration of 20 days.		

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08-BC2-152-m01	Biochemis	try 2							
	ECTS 5	Duratio	n 1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses		V (2) + Ü (1)	·	·	·			
	Method of	assessment	written examination (a	pprox. 60 to 90 minutes)					
	Additional	Information	bensmittelchemikerin	Subsection 2 Sentence 2 Verordnung über die A nen und Lebensmittelchemiker (Regulation on th onjunction with No. II 2. Letter e) and No. II 1. Let	he training and examin	nation of state-certified food che-			
08-BCP-152-m01	Practical co	ourse of Bioc	hemistry						
	ECTS 5	Duratio	n 1 semester	Method of grading (not) successfully comp	oleted Modul level	undergraduate			
	Courses		P (6)	·	•				
	Method of	assessment	Log (approx. 30 pages Assessment offered: C) Ince a year, summer semester					
	Modules su completed		08-BC1						
	Participant cation of p		available places. Students of the Bache located according to tl	lor's degree programme Biochemie (Biochemist lor's degree programme Chemie (Chemistry, 180 ne number of subject semesters, among applica ; a waiting list will be maintained and places re-	ECTS credits): no mo nts with the same num	re than 6 places; places will be al- nber of subject semesters, places			
08-PS3-152-m01	Applied Sp	ectroscopy 3							
	ECTS 5	Duratio		Method of grading numerical grade	Modul level	undergraduate			
	Courses	ļ.	V (3)						
	Method of	assessment	 b) oral examination of c) oral examination in d) log (approx. 20 pag e) presentation (approx) 		es per candidate) or				
08-PKC-152-m01	Programm	ing and nume	erical methods						
-	ECTS 5	Duratio		Method of grading (not) successfully comp	oleted Modul level	undergraduate			
	Courses	I	S (2) + Ü (2)						
	Method of	assessment	 b) oral examination of c) oral examination in d) log (approx. 20 pag e) presentation (approx. Language of assessments) 		es per candidate) or				

08-0P-152-m01	Advanced cher	mical prac	ctical c	ourse						
	ECTS 5	Duratio	1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Courses		P (10)							
	Method of ass	essment	b) log	< (approx. 15 minute (approx. 10 to 20 p	ages)	ich				
	Additional Info	rmation		_	German and/or Engl	ock placement / block taught p	restingly source	with a duration of an	dava	
08-GC-242-m01	Green and sus								udys.	
08-90-242-1101	ECTS 5	Duratio		1 semester	Method of grading	numorical grado	Modul level	undergraduate		
	Courses	Duration		+ Ü (1)	Method of grading	numencai giade	Modul level			
			Modu	le taught in: German						
	Method of ass	essment	a) poi	tfolio (approx. appr	ox. 40 hours total) or	4)				
					pprox. 60 to 90 minu German and/or Engl					
					e a year, winter seme					
Thesis (10 ECTS cre	dits)									
08-BA-152-m01	Bachelor Thes	is								
	ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses	-	No co	urses assigned to m	nodule					
	Method of ass	essment	Bachelor's thesis (approx. 40 pages) Language of assessment: German and/or English							
	other prerequi	sites	The supervisor may make the successful completion of certain modules that are relevant for the respective topic a prerequisi- te for the assignment of the topic.							
	Additional Info	ormation	Time	to complete: 8 week	<s.< td=""><td></td><td></td><td></td><td></td></s.<>					
Compulsory Electiv	es, Appendix D	A (170 EC ⁻	TS crea	lits)						
Subfield General a	nd Inorganic Ch	emistry (35 ECT	S credits)						
08-AC1-152-m01	Principles of Ir	norganic (Chemis	stry						
	ECTS 8	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V (4) -							
	Method of ass	essment	b) ora c) ora d) log e) pre Langu	l examination of on l examination in gro (approx. 20 pages) sentation (approx. lage of assessment:	or 30 minutes) : German and/or Engl	to 30 minutes) or lates (approx. 15 minutes per c ish		ate) or		
	Additional Info		anne>	<pre>x 2 to the APOLmCh</pre>		in conjunction with No. I 2nd le	etter a) of annex	<pre>< 1 to the APOLmCh an</pre>	d No. 1 of	
	Referred to in l	LPO I	§ 42 § 62	Nr. 1 and § 22 II Nr. Nr. 1	1 h)					
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08-ACP1-152-m01	Inorgar	Inorganic Chemistry 1 (lab)								
	ECTS	10	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate	
	Course	S		P (12)	+ S (2)					
	Methoo	l of ass	essment	exam (appro appro Langu	[a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes)] and Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical assignments (2 to 4 random examinations) Language of assessment: German and/or English Assessment offered: Once a year, winter semester					
	Additio	nal Info	ormation		ding to § 2 para. 2 s to the APOLmCh	entence 2 APOLmCh	in conjunction with No. I 1st le	etter a) of annex :	1 to the APOLmCh and No. 1 of an-	
08-AS1-152-m01	Inorgar	nic Cher	mistry of t	the Ele	ments					
	ECTS	6	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses			. ,	V(2) + V(2)					
	Method of assessment			 a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English 						
	Additional Information			according to § 2 para. 2 sentence 2 APOLmCh in conjunction with No. I 2nd letter a) of annex 1 to the APOLmCh and No. 1 of annex 2 to the APOLmCh						
	Referre	d to in l	LPO I	§ 62 Nr. 1						
08-ANP-152-m01		cal Che	mistry (la	ıb)						
	ECTS	6	Duratio		1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate	
	Courses			P (12) + S (1)						
	Method of assessment			Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical performance (2 to 4 random examinations) Language of assessment: German and/or English Assessment offered: Once a year, summer semester						
	Additional Information				ding to § 2 para. 2 s to the APOLmCh	entence 2 APOLmCh	in conjunction with No. I 1st le	etter a) of annex :	1 to the APOLmCh and No. 1 of an-	

08-AC-FS-DA-152-	Solid State Ch	emistry, S	Spectro	oscopic Methods (DI	D)					
m01	ECTS 5	Duratior	ı	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses		V (2) -	+ V (2)	· · · · · · · · · · · · · · · · · · ·	°				
	Method of asse	essment								
					e candidate each (20 to 30 minutes) or					
				(approx. 20 pages)	ups of up to 3 candidates (approx. 15 n or	ninutes per candidate) or				
			e) pre	sentation (approx. 3	so minutes)					
			Langu	lage of assessment:	German and/or English					
Subfield Organic Ch	ld Organic Chemistry (28 ECTS credits)									
08-0C1-152-m01	Organic Chemi	istry 1								
ĺ	ECTS 5	Duratior	า	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses		V (3) -	+ Ü (1)	· ·	"				
	Method of asse	essment			oprox. 90 to 180 minutes) or					
					e candidate each (20 to 30 minutes) or					
				(approx. 20 pages)	ups of up to 3 candidates (approx. 15 n	ninutes per candidate) or				
			e) presentation (approx. 30 minutes)							
					German and/or English					
	Additional Info	rmation			entence 2 APOLmCh in conjunction wit	h No. I 2nd letter b) of anne	x 1 to the APOLmCh and No. 2 of			
			annex 2 to the APOLmCh							
	Referred to in L		§621							
08-0C2-152-m01				tical methods in or	· · · · · · · · · · · · · · · · · · ·					
	ECTS 9	Duration		1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses			+ Ü (1) + V (2)						
	Method of asse	essment								
			b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or							
			d) log (approx. 20 pages) or							
			e) presentation (approx. 30 minutes)							
	1		Language of assessment: German and/or English							
	Organic Chemi	istry - lab	1							
	ECTS 8	Duration	า	1 semester	Method of grading (not) successfully	completed Modul level	undergraduate			
	Courses		P (14)							
	Method of asse	essment			pre and post-experiment examination t		ch, log approx. 5 to 10 pages each)			
			and assessment of practical performance (2 to 4 random examinations)							
	Modules succe	o c fullu	Language of assessment: German and/or English 08-OC1 and 08-ACP1							
	completed	ssiully	08-00	L1 and 08-ACP1						

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08-0C-0C3-	Organic Ch	emistry 3 (D	D)					
DA-152-m01	ECTS 6	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate	
	Courses		V (2) ·	+ Ü (2)				
	Method of a	assessment	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English					
Subfield Physical a	nd Theoretic	al Chemistr	y (37 E	CTS credits)				
08-PC-QMS-152-	Principles of	of quantum n	nechan	ics and spectroscop	ру			
m01	ECTS 10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate	
	Courses		V (4) ·	+ Ü (2) + V (2)				
			b) ora c) ora d) log e) pre Langu credit	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English creditable for bonus				
08-PC-TKE-152-	Thermodyn	amics, Kinet	tics, Electrochemistry					
m01	ECTS 9	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate	
	Courses		11	+ Ü (2)				
	Method of a	assessment	b) ora c) ora d) log e) pre Langu	ll examination of on l examination in gro (approx. 20 pages) sentation (approx.		er candidate) or		
	Referred to	in LPO I	§ 62	Nr. 1				
08-PCP-152-m01		nemistry (lab)					
	ECTS 9	Duratio	n	1 semester	Method of grading (not) successfully complet	ed Modul level	undergraduate	
	Courses		P (6)					
	Method of a	assessment	and a	ssessment of practi	ore and post-experiment examination talks appr cal performance (2 to 4 random examinations) c German and/or English	ox. 15 minutes eac	h, log approx. 5 to 10 pages each)	
	Modules su completed	Iccessfully	08-PC	C-QMS or o8-PC-TKE				

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08-TC-152-m01	Quantu	m Cher	nistry						
	ECTS	3	Duration	1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Course	S		V (2) + Ü (1)					
	Methoo	d of ass	essment	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or					
				d) log (approx. 20 pag e) presentation (appro	es) or				
	Referre	d to in I	LPO I	§ 22 Nr. 1 h) § 22 Nr. 2 f) § 22 Nr. 3 f)					
08-PC-SBL-DA-152-	Symme	etry, cho	emical bo	nding and light (DD)					
m01	ECTS	6	Duration	1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Course	S		V (3) + Ü (2)	·				
	Methoo	d of ass	essment	 b) oral examination of c) oral examination in d) log (approx. 20 page) e) presentation (approx) 	n (approx. 90 to 180 minutes) or one candidate each (20 to 30 minutes) or groups of up to 3 candidates (approx. 15 minu ges) or ox. 30 minutes) ent: German and/or English	tes per candidate) or			
Subfield Basics of	Natural Sciences (20 ECTS credits)								
08-BC1-152-m01	Biochemistry 1								
			Duration	1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Course	S		V(2) + U(1)					
	Method	d of ass	essment	written examination (approx. 60 to 90 minutes)					
	Additional Information			according to § 2 para. 2 sentence 2 APOLmCh in conjunction with No. II 2nd letter e) and No. II 1st letter c) of annex 1 to the APOLmCh and No. 3 of annex 3 to the APOLmCh					
	Referred to in LPO I			§ 42 Nr. 2 § 62 Nr. 2					
10-M-MCB-152-	Mather	natics f	or studen	ts in Chemistry and Bi	ology				
m01	ECTS	5	Duration	1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Course	S		V (3) + Ü (2)					
	Method	d of ass	essment	written examination (a	approx. 90 to 120 minutes) and written exercise	es (approx. 25)			
	Additio	nal Info	ormation	mittelchemikerinnen u	Subsection 2 Sentence 2 Verordnung über die und Lebensmittelchemiker (Regulation on the t tion with No. I 2. Letter f) of Annex 1 of APOLmC	raining and examinatio			

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11-EFNF-152-m01	Introdu	iction to	• Physics	for Str	udents of other Disc	iplines				
	ECTS	7	Duration	on 2 semester Method of grading numerical grade Modul level undergraduate						
	Course	S		V (4)	+ V (3)					
	Method	d of asso			en examination (60 t	· · · · · · · · · · · · · · · · · · ·				
	Additio	Additional Information			according to § 2 para. 2 sentence 2 APOLmCh in conjunction with No. I 2nd letter d) and No. I 1st letter d) of annex 1 to the APOLmCh and No. 4 of annex 2 to the APOLmCh					
11-PFNF-152-m01	Labora	Laboratory Course Physics for Students of other Disciplines								
	ECTS	3	Duration	n	1 semester	Method of grading (not) successfully completed	Modul level	undergraduate		
	Course	s		P (4)						
	Method	1 of asse	essment	tes). Each	-	vith oral test (approx. 15 minutes, during experimen tes preparation, performance and evaluation. Test a				
		Participants and allo- cation of places			Only as part of pool of general transferable skills (ASQ): 10 places (lottery)					
	Additio	nal Info	ormation		according to § 2 para. 2 sentence 2 APOLmCh in conjunction with No. I 2nd letter d) and No. I 1st letter d) of annex 1 to the APOLmCh and No. 4 of annex 2 to the APOLmCh					
Subfield Compete	ences from	n foreig	n universi	ity (50	ECTS credits)					
08-VPUB1-152-	Qualifi	cations	- Partner	Unive	University 1					
m01	ECTS 25 Duratio		n	2 semester	Method of grading (not) successfully completed	Modul level	undergraduate			
	Course	S		No courses assigned to module Course(s) as specified by partner university abroad						
	Methoo	d of asse	essment	Assessments as specified by partner university abroad Language of assessment: German and/or language spoken at partner university abroad						
	other p	rerequis	sites	Please consult with course advisory service in advance.						
08-VPUB2-152-	Qualifi	cations	- Partner	Unive	University 2					
m01	ECTS	ECTS 25 Duratio		n	2 semester	Method of grading numerical grade	Modul level	undergraduate		
	Course	Courses			No courses assigned to module					
	Methoo	d of asse	essment	Assessments as specified by partner university abroad Language of assessment: German and/or language spoken at partner university abroad						
			sites	Please consult with course advisory service in advance.						

Thesis (10 ECTS c	redits)								
08-BA-152-m01	Bachel	or Thesi	is						
	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Course	S	- F	No courses assigned to module					
	Methoo	d of asse	essment	Bachelor's thesis (approx. 40 pages) Language of assessment: German and/or English					
	other p	rerequis			The supervisor may make the successful completion of certain modules that are relevant for the respective topic a prerequisi- te for the assignment of the topic.				
	Additio	nal Info	rmation	Time t	o complete: 8 weeks	S.			