



Annex SFB

Studienfachbeschreibung (subject description, SFB) for the subject Chemistry as a Master's with 1 major with the degree "Master of Science" (120 ECTS credits)

Responsible: Faculty	of Chemistry and Pharmacy	Examination regulations version: 2010
Abbreviations used:	Course types: E = field trip, K = colloquium, O = conversatorium, P = place = lecture	ement/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) successfully c	ompleted
	Regulations: (L)ASPO = general academic and examination regulations (for = list of modules	or teaching-degree programmes), FSB = subject-specific provisions, SFB
	Other: A = thesis, LV = course(s), PL = assessment(s), TN = participants, V	/L = prerequisite(s)
Conventions for the modules in this SFB:	Unless otherwise stated, courses and assessments will be held in Germar ditable for bonus.	, 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 assess thod of assessment to be used in the current semester by two weeks after customary manner.	-
	Should a module comprise more than one graded assessment, all assess	nents will be equally weighted, unless otherwise stated below.
	Should the assessment comprise several individual assessments, succes individual assessments.	sful completion of the module will require successful completion of all

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)):

14-Jul-2010 (2010-31)

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

Every module will be described using the following form:

Abbreviation	Module title										
	ECTS		Duration	(in semesters)	Method of grading		Module level				
	Courses		To be spe	ecified in the form X	(y) with course type X	abbreviated as specified abo	ve and number of we	ekly contact hours y			
	Method of as	ssessm	ent								
	Only after su completion of		Il if applica	fapplicable							
	Other prereq	uisites	if applica	if applicable							
	Participants on of places		ocati- if applica	if applicable							
	Additional in	formati	on if applica	if applicable							
	Referred to in	n LPO I	if applica	ble (examination re	gulations for teaching	g-degree programmes)					

Compulsory Electives (90 ECTS credits) Divided up into 3 focus subjects (25 ECTS credits each) + additional qualifications (15 ECTS credits).

Inorganic Chemistry (25 ECTS credits)

Compulsory Courses (20 ECTS credits)

08-ACM1-102-m01 Advanced Inorganic Chemistry

5 ACIMI 102 1101	Auvanc													
	ECTS	20	Duration	1	2 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses This module comprises 2 module components. Information on courses will be listed separately for each module com o8-ACM1-1-102: S + S (no information on SWS (weekly contact hours) and course language available) o8-ACM1-2-102: P (no information on SWS (weekly contact hours) and course language available)													
	Method	l of asse		Asses stated Asses ced st	sment in this module l otherwise, successi sment in module cor udents 10 ECTS, Method of a) 1 to 3 written exat c) oral examination Language of assess sment in module cor 10 ECTS, Method of	e comprises the asse ful completion of the mponent o8-ACM1-1 - grading: numerical g minations (90 to 120 in groups (groups of ment: German or Eng mponent o8-ACM1-2 grading: (not) succe	essments in the individual mod e module will require successfu -102: Inorganic Chemistry for ac grade o minutes each) or b) oral exam f 2, 45 minutes) glish -102: Inorganic Chemistry pract	ule component l completion of dvanced studen ination of one c	s as specified below. Unless all individual assessments. Its Inorganic Chemistry for adva andidate each (30 minutes) or					
				•	Language of assess	ment: German or En	glish							

Compulsory Electives (5 ECTS credits)

08-ACM2-102-m01	Bioinorganic Chemistry										
	ECTS	ECTS 5 Duration		า	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			S (no	information on SWS	(weekly contact hou	rs) and course language availal	ole)			
				natior the m ning o	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral exami- nation in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the begin- ning of the course. Language of assessment: German or English						
08-ACM3-102-m01	Solid s	tate che	mistry ar	nd inor	ganic materials						
	ECTS	ECTS 5 Duratio		า	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			S (no information on SWS (weekly contact hours) and course language available)							
	Method of assessment			a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral exami- nation in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the begin- ning of the course. Language of assessment: German or English							

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08-HKM2-102-m01	Advand	ced orga	anometall	ic che	mistry and its applic	ation in homogeneous catalysis					
	ECTS	5	Duratio	า	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		S (no	6 (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment			natio the m ning o	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral exami- nation in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the begin- ning of the course. Language of assessment: German or English						
Organic Chemistry	(25 ECT	S credit	s)								
Compulsory Course	es (15 EC	TS cred	lits)								
o8-0CM-	Moder	n Synth	etic Meth	od							
SYNT-102-m01	ECTS	5	Duratio	า	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		S + Ü	⁵ + Ü (no information on SWS (weekly contact hours) and course language available)						
		prerequi	essment sites	nation the m ning o Langu Admin ning o	nation in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the begin- ning of the course. Language of assessment: German or English Admission prerequisite to assessment: successful completion of exercises in the respective classes as specified at the begin- ning of the course (usually 70% of exercises to be successfully completed) as well as regular attendance of exercises (usually a moving of the course (usually 70% of exercises to be successfully completed) as well as regular attendance of exercises (usually						
08-0CM-	a maximum of 2 incidents of unexcused absence). Advanced NMR- and Mass Spectrometry										
NMRMS-102-mo1	ECTS	5	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	-		P (no information on SWS (weekly contact hours) and course language available)							
	Metho	d of ass	essment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral exami- nation in groups (groups of 2, 30 minutes) Language of assessment: German or English							
08-0CM-AKP1-102-	Advand	ced Res	earch Pro	ject 1							
m01	ECTS	5	Duratio	1	1 semester	Method of grading (not) successfully completed	Modul level	graduate			
	Course	S		P (no	information on SWS	6 (weekly contact hours) and course language availa	ble)				
	Metho	d of ass	essment		approx. 15 minutes) lage of assessment:	and log (approx. 15 to 20 pages) German or English					

Compulsory Electiv	es (10 ECTS	credits)									
08-0CM-NAT-102-	Modern As	pects of Natu	ral Pro	duct Chemistry and	d Biological Chemistry						
m01	ECTS 5	Duratio		1 semester	Method of grading nu	•	Modul level	graduate			
	Courses		S (no	(no information on SWS (weekly contact hours) and course language available)							
	Method of a	assessment	nation the m ning o	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral exami- nation in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the begin- ning of the course. Language of assessment: German or English							
	Participants cation of pl		Chem	istry Master's: no re	estrictions. Biochemistry	Master's: 20 places.	Places will be allocate	d by lot.			
08-0CM-FM-102-	Organic Fu	nctional Mat	erials								
m01	ECTS 5	Duratio	n	1 semester	Method of grading nu	ımerical grade	Modul level	graduate			
	Courses		S (no	information on SWS	6 (weekly contact hours)	and course language	available)	•			
	Method of a	assessment	nation the m ning o	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral exami- nation in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the begin- ning of the course. Language of assessment: German or English							
08-HKM1-102-m01	Organo- and Biocatalysis										
	ECTS 5	Duratio	n	1 semester	Method of grading nu	ımerical grade	Modul level	graduate			
	Courses		S (no	information on SWS	5 (weekly contact hours)	and course language	available)				
	Method of a	assessment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment the module coordinator will choose the method to be used for the module component in the current semester at the begin ning of the course. Language of assessment: German or English					veral methods of assessment,			
08-SCM1-102-m01	Supramolecular Chemistry (Basics)										
	ECTS 5	Duratio		1 semester	Method of grading nu	ımerical grade	Modul level	graduate			
	Courses		S (no	information on SWS	6 (weekly contact hours)	and course language	available)	*			
	Method of a	assessment		written examination (approx. 90 minutes) or oral examination of one candidate each (approx. 20 minutes) Language of assessment: German or English							
08-SCM3-102-m01	Bioorganic	Chemistry					·				
	ECTS 5	Duratio	n	1 semester	Method of grading nu	ımerical grade	Modul level	graduate			
	Courses		S (no	S (no information on SWS (weekly contact hours) and course language available)							
	Method of a	assessment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral exami- nation in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the begin- ning of the course. Language of assessment: German or English								
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08-TCM2-102-m01	Compu	omputational Chemistry											
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		S + Ü	5 + Ü (no information on SWS (weekly contact hours) and course language available)								
	Methoo	d of asse	essment		n examination (90 lage of assessmen	minutes) t: German or English							
	other p	orerequis	sites	Admission prerequisite to assessment: successful completion of exercises in the respective classes as specified at the begin- ning of the course (usually 70% of exercises to be successfully completed) as well as regular attendance of exercises (usually a maximum of 2 incidents of unexcused absence).									
Physical Chemistry	(25 EC1	rs credit	:s)										
Compulsory Course	es (10 EC	TS cred	its)										
08-PCM1-102-m01	Advand	ced Phys	sical Chei	mistry									
	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		•	08-PCM1-1-102: S	+ Ü (no information o	5. Information on courses will n SWS (weekly contact hours WS (weekly contact hours) ar	s) and course lang					
Computer Theat				stated Asses Asses	d otherwise, succes sment in module o 5 ECTS, Method o written examinati Language of asse sment in module o 5 ECTS, Method o Vortestate (pre-exp pages)	ssful completion of th component o8-PCM1-4 f grading: numerical g on (90 minutes) or or ssment: German or Er component o8-PCM1-2 f grading: (not) succes	e module will require succes 1-102: Laser Spectroscopy La grade al examination (20 minutes) nglish 2-102: Advanced Physical Chossfully completed I Nachtestate (post-experiment)	sful completion of ser Spectroscopy emistry (Lab)	ts as specified below. Unless f all individual assessments. ox. 15 minutes), log (approx. 15				
Compulsory Electiv													
00-10/02-102-11101	ECTS	1	Chemist Duration	-	1 comostor	Method of grading	numerical grade	Modul level	graduate				
	ECTS 5 Duratic				ion1 semesterMethod of gradingnumerical gradeModul levelgraduateS + Ü (no information on SWS (weekly contact hours) and course language available)								
			essment	writte	n examination (90								
	other p	orerequis	sites	Admission prerequisite to assessment: successful completion of exercises in the respective classes as specified at the begin- ning of the course (usually 70% of exercises to be successfully completed) as well as regular attendance of exercises (usually a maximum of 2 incidents of unexcused absence).									

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08-PCM2-102-m01	Chemic	al Dyna:	mics										
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	s		S + Ü	+ Ü (no information on SWS (weekly contact hours) and course language available)								
	Method	Method of assessment			ritten examination (90 minutes) or oral examination of one candidate each (20 minutes) or talk (30 minutes) anguage of assessment: German or English								
08-PCM3-102-m01	Nanosc	ale Mat	erials										
	ECTS 5 Duration			n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		S + Ü	(no information on S	SWS (weekly contact	hours) and course language av	/ailable)					
	Methoo	l of asse	essment		n examination (90 m lage of assessment:		nination of one candidate each	(20 minutes) o	r talk (30 minutes)				
08-PCM4-102-m01	Ultrafa	st spect	roscopy	and qu	antum-control								
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		S + Ü	(no information on S	SWS (weekly contact	hours) and course language av	/ailable)					
	Methoo	l of asse	essment		ritten examination (90 minutes) or oral examination of one candidate each (20 minutes) or talk (30 minutes) anguage of assessment: German or English								
08-PCM5-102-m01	Physica	Physical chemistry of supramolecular assemblies											
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S	,	S + Ü	S + Ü (no information on SWS (weekly contact hours) and course language available)								
	Method	l of asse	essment	written examination (90 minutes) and/or oral examination of one candidate each (20 minutes) and/or talk (30 minutes) Language of assessment: German or English									
08-PCM6-102-m01	Physical Chemistry (Advanced Lab)												
	ECTS	5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Course	S		P (no	P (no information on SWS (weekly contact hours) and course language available)								
	Methoo	l of asse	essment	presentation (20 minutes) Language of assessment: German or English									
08-TCM1-102-m01	Theore	tical Ch	emistry										
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	s		S + Ü	(no information on S	SWS (weekly contact	hours) and course language av	/ailable)					
	Method of assessment			written examination (90 minutes) Language of assessment: German or English									
	other p	rerequis	sites	Admission prerequisite to assessment: successful completion of exercises in the respective classes as specified at the begin- ning of the course (usually 70% of exercises to be successfully completed) as well as regular attendance of exercises (usually a maximum of 2 incidents of unexcused absence).									

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Biochemistry (25 E	CTS credit	ts)											
Compulsory Cours	es (10 ECT	S credi	ts)										
08-BC-MOL-102-	Molecula	Molecular Biology											
m01	ECTS 5	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses			Ü + V	(no information on S	SWS (weekly contact	hours) and course languag	ge available)					
	Method o	of asse	ssment		ten examination (90 Jage of assessment:		n examinations (60 to 90 m	ninutes)					
08-BC-MOLP-102-	Molecula	ar Biolo	ogy Pract	tical Co	ourse								
m01	ECTS 5	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses			P (no	information on SWS	δ (weekly contact hou	irs) and course language av	vailable)					
	Method o	of asse	ssment		ost-experiment exames exames of assessment:		Nachtestate, approx. 15 mii	nutes), log (approx.	5 to 10 pages)				
	Participa cation of			a star of pla (20%	Number of places: 12. Should the number of applications exceed the number of available places, places will be allocated in a standardised procedure among all applicants irrespective of their subjects according to the following quotas: Quota 1 (80% of places): grade achieved in module o8-BC; among applicants with the same grade, places will be allocated by lot. Quota 2 (20% of places): number of subject semesters of the respective applicant; among applicants with the same number of subje semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated as they become available								
Compulsory Electiv	ves (15 ECT	rs cred	lits)										
08-BC-092-m01	Biochem	istry											
	ECTS 6	5	Duratio	n	2 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses			V + Ü	V + Ü + V + Ü (no information on SWS (weekly contact hours) and course language available)								
	Method o	of asse	essment	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 pre	erequis	ites	ning	Admission prerequisite to assessment: successful completion of exercises in the respective classes as specified at the begin- ning of the course (usually 70% of exercises to be successfully completed) as well as regular attendance of exercises (usually a maximum of 2 incidents of unexcused absence).								

08-BCP-092-m01	Biochem	istry Lab									
	ECTS 5	Duratio	n	1 semester	Method of grading	g (not) successfully co	mpleted	Modul level	undergraduate		
	Courses		P (no	information on SWS	(weekly contact ho	ours) and course langua	ge availa	ble)			
	Method o	of assessment	pre/post-experiment examination talks (Vortestate and Nachtestate, approx. 15 minutes each), practical work (log, approx. 5 to 10 pages) Assessment offered: once a year, summer semester								
	Modules complete	successfully ed	08-B	C							
	Participa cation of	nts and allo- places	a sta of pla (20%	Number of places: 24. Should the number of applications exceed the number of available places, places will be allocated in a standardised procedure among all applicants irrespective of their subjects according to the following quotas: Quota 1 (80% of places): grade achieved in module o8-BC; among applicants with the same grade, places will be allocated by lot. Quota 2 20% of places): number of subject semesters of the respective applicant; among applicants with the same number of subject emesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated as they become available.							
08-ACM2-102-m01	Bioinorga	anic Chemistry									
	ECTS 5			1 semester	Method of grading	g numerical grade		Modul level	graduate		
	Courses		S (no	information on SWS	(weekly contact ho	ours) and course langua	ige availa	ble)			
			the m ning Lang	odule coordinator w of the course. uage of assessment:	vill choose the meth German or English	nod to be used for the m			everal methods of assessment, current semester at the begin-		
08-0CM-NAT-102-		Modern Aspects of Natural Product Chemistry and Biological Chemistry									
m01	ECTS 5	Duratio	n	1 semester	Method of grading	g numerical grade		Modul level	graduate		
	Courses		S (no	information on SWS	(weekly contact ho	ours) and course langua	ige availa	ble)			
			natio the m ning Lang	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral exami- nation in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the begin- ning of the course. Language of assessment: German or English							
	Participa cation of	nts and allo- places	Chen	nistry Master's: no re	strictions. Biochem	istry Master's: 20 place	es. Places	will be allocate	ed by lot.		
08-HKM1-102-m01	Organo-	and Biocatalys	is								
	ECTS 5	, Duratio	n	1 semester	Method of grading	g numerical grade		Modul level	graduate		
	Courses	i	S (no	information on SWS	(weekly contact ho	ours) and course langua	ige availa	ble)			
	Method o	of assessment	natio the m ning	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral exami- nation in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the begin- ning of the course. Language of assessment: German or English							

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08-BC-VPMM-102-	Practica	al cours	e "Molec	ular M	achines" for advanc	ed students						
m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	S		P (no	information on SWS	(weekly contact hou	urs) and course language availa	ble)				
	Method of assessment				log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German or English							
08-BC-VPPD-102-	Practica	al cours	e "Protei	n Deg	Degradation in Eukaryotes" for advanced students							
m01	ECTS 10 Duration		n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	S			P (no information on SWS (weekly contact hours) and course language available)							
	Method of assessment			Langi	og (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German or English							
08-BC-VPRB-102-	Practica	al cours	e "RNA B	iochei	mistry" for advanced	students						
m01	ECTS 10 Duratio			n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	S		P (no	information on SWS	(weekly contact hou	urs) and course language availa	ble)				
	Method of assessment			og (approx. 20 pages) and talk (approx. 15 minutes) anguage of assessment: German or English								
08-BC-VPSB-102-	Practica	al cours	e "Struct	ural B	iology" for advanced							
m01	ECTS 10 Duratio		Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	S		,		· /	urs) and course language availa	ble)				
	Method of assessment			log (a Langi	log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German or English							
08-MCM3-102-	Princip	les of d	rug desig	n								
m01	ECTS	5	Duratio		1 semester	Method of grading	¥	Modul level	graduate			
	Courses	S					hours) and course language av	ailable)				
	Method of assessment			presentation with discussion (approx. 30 minutes) Language of assessment: German or English								
	Particip cation o			Cherr lot.	Chemistry Master's and Mathematics Master's: no restrictions. Biochemistry Master's: 10 places. Places will be allocated by lot.							
08-PH-KAC-092-	Clinical	and An	alytical (Chemis	stry							
m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	S		V (no	information on SWS	(weekly contact hou	urs) and course language availa	ble)				
	Method	l of asse	essment	writte	en examination (120	minutes)		·				
08-PH-KACP-092-	Clinical	and An	alytical (Chemis	stry (practical course)						
m01	ECTS	5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Course	S		P (no	information on SWS	(weekly contact hou	urs) and course language availa	ble)				
	Method	l of asse	essment	exam	ination talks (Testate	e, approx. 15 minute	s each), log (approx. 5 to 10 pag	ges)				

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Functional Materia	ıls (25 EC	TS cred	its)									
Compulsory Cours	es (20 EC	CTS cred	its)									
08-FS1-101-m01	Materia	als Scier	nce 1 (Bas	sic Intr	oduction)							
	ECTS	5	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		V + Ü	/ + Ü (no information on SWS (weekly contact hours) and course language available)							
	Method of assessment			writte	written examination (90 minutes)							
08-0CM-FM-102-	Organi	Organic Functional Materials										
m01	ECTS 5 Duration			า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S	-	S (no	S (no information on SWS (weekly contact hours) and course language available)							
				nation in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the beginning of the course. Language of assessment: German or English								
08-FMM-MP-102-		Lab Course Materials Science										
m01	ECTS	5	Duration	-	1 semester		(not) successfully completed		graduate			
	Course	S		P (no information on SWS (weekly contact hours) and course language available)								
	Methoo	d of asse	essment	Vortestate (pre-experiment exams) and Nachtestate (post-experiment exams) (15 minutes), assessment of practical perfor- mance, log (5 to 10 pages) Language of assessment: German or English								
08-FMM-PA-102-	Project	Work										
m01	ECTS	5	Duratio	า	1 semester	Method of grading	(not) successfully completed	d Modul level	graduate			
	Course	S		P (no	information on SWS	(weekly contact hou	rs) and course language avai	lable)				
	Method	d of asse	essment		approx. 15 minutes) a lage of assessment:	and log (approx. 15 p German or English	ages)					

Compulsory Electiv													
08-NT-101-m01				-	r	ology for Materials							
	ECTS	5	Duratio		1 semester	-	ng numerical grade		Modul level	undergraduate			
	Course	S		 This module comprises 2 module components. Information on courses will be listed separately for each module component. o8-NT-1-101: V (no information on SWS (weekly contact hours) and course language available) o8-NT-2-101: V (no information on SWS (weekly contact hours) and course language available) 									
	Method	l 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-NT-1-101: Chemically and biologically inspired Nanotechnology for Materials Synthesis 2 ECTS, Method of grading: numerical grade oral examination (approx. 15 minutes) Assessment in module component o8-NT-2-101: From Biomineralisation to biologically inspired Materials Synthesis 3 ECTS, Method of grading: numerical grade oral examination (approx. 20 minutes) 									
08-FS2-101-m01	Materia	als Scie	nce 2 (Th	e Majo	Major Material Groups)								
	ECTS	5	Duratio	า	1 semester	Method of gradi	ng numerical grade		Modul level	undergraduate			
	Course	S		V + Ü	(no information or	n SWS (weekly cont	act hours) and course la	anguage av	ailable)				
	Method	d of ass	essment	writte	en examination (ap	prox. 90 minutes)							
08-ACM3-102-m01	Solid state chemistry and inorganic materials												
	ECTS 5 Duratio			า	1 semester	Method of gradi	ng numerical grade		Modul level	graduate			
	Course	S		S (no	information on SV	VS (weekly contact	nours) and course lang	uage availa	ble)				
	Method	d of asso	essment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral exami- nation in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the begin- ning of the course. Language of assessment: German or English									
08-SCM1-102-m01	Supram	nolecula	ar Chemis	try (Ba	asics)								
	ECTS	5	Duratio	ı	1 semester	Method of gradi	ng numerical grade		Modul level	graduate			
	Course	s		S (no	information on SV	VS (weekly contact	nours) and course lang	uage availa	ble)	•			
	Method	d of ass	essment		written examination (approx. 90 minutes) or oral examination of one candidate each (approx. 20 minutes) Language of assessment: German or English								
08-PCM3-102-m01	Nanosc	ale Mat	terials										
	ECTS	5	Duratio	ı	1 semester	Method of gradi	ng numerical grade		Modul level	graduate			
	Course	S		S + Ü	(no information or	n SWS (weekly cont	act hours) and course la	anguage av	ailable)				
	Method	d of ass	essment	writte	S + Ü (no information on SWS (weekly contact hours) and course language available) written examination (90 minutes) or oral examination of one candidate each (20 minutes) or talk (30 minutes) Language of assessment: German or English								

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08-FMM-CT-102-	Molecu	ular Mat	erials (Le	cture)								
m01	ECTS	5	Duratio	ı	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V + Ü	+ Ü (no information on SWS (weekly contact hours) and course language available)							
	Metho	d of ass	essment		resentation (approx. 30 minutes) and a) 1 to 3 written examinations (1 written examination: 90 minutes; 2 written examinati-							
					ns: 60 or 90 minutes each; 3 written examinations: 60 minutes each) or b) oral examination of one candidate each (approx. o minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes)							
				20 MI	nutes) or c) oral exa	imination in groups (g	roups of 2, approx. 30 minutes	5)				
Homogeneous Catalysis (25 ECTS credits)												
Compulsory Course	es (20 E	CTS cred	lits)									
08-HKM2-102-m01	Advand	ced orga	nometall	ic cher	mistry and its applic	cation in homogeneou	is catalysis					
	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses S (no information on SWS (weekly contact hours) and course language available)											
	Method of assessment a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral nation in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assess the module coordinator will choose the method to be used for the module component in the current semester at the ning of the course. Language of assessment: German or English						everal methods of assessment,					
08-HKM1-102-m01	Organo	o- and B	iocatalys	is								
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (no	information on SWS	6 (weekly contact hour	s) and course language availal	ble)				
	Metho	d of ass	essment	nation the m ning c	n in groups (groups odule coordinator w of the course.	nations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral exami- os of 2, 30 minutes). Should there be the option to choose between several methods of assessment, r will choose the method to be used for the module component in the current semester at the begin- nt: German or English						
08-HKM3-102-m01	Practic	al cours	e "Homo	geneou	us catalysis"							
	ECTS	10	Duration	า	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course	S		P + P	(no information on S	SWS (weekly contact h	iours) and course language ava	ailable)				
	Metho	d of asso	essment		cal work with lab re lage of assessment:		s) and talk (approx. 15 minutes)				

Compulsory Electiv	ves (5 EC	TS cred	its)									
08-0CM-	Moder	n Synth	etic Meth	od								
SYNT-102-m01	ECTS	ECTS 5 Duration			1 semester	Method of grading			Iodul level	graduate		
	Course	S		S + Ü	(no information of	n SWS (weekly contac	t hours) and course la	anguage avail	able)			
	Method of assessment			natio the m ning o	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral exami- nation in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the begin- ning of the course. Language of assessment: German or English							
	other p	other prerequisites			Admission prerequisite to assessment: successful completion of exercises in the respective classes as specified at the begin- ning of the course (usually 70% of exercises to be successfully completed) as well as regular attendance of exercises (usually a maximum of 2 incidents of unexcused absence).							
08-TCM2-102-m01	Computational Chemistry											
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	N	1odul level	graduate		
	Courses		S + Ü	Ü (no information on SWS (weekly contact hours) and course language available)								
	Method of assessment					o minutes) nt: German or English						
	other prerequisites			ning	Admission prerequisite to assessment: successful completion of exercises in the respective classes as specified at the begin- ning of the course (usually 70% of exercises to be successfully completed) as well as regular attendance of exercises (usually a maximum of 2 incidents of unexcused absence).							
08-HKM4-102-m01	Advanc	ed transition metal chemistry										
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	N	1odul level	graduate		
	Course	S		S (no	information on SV	VS (weekly contact ho	urs) and course langu	lage available	e)			
	Method of assessment			a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral exami- nation in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the begin- ning of the course. Language of assessment: German or English								
Medicinal Chemist	ry (25 EC	TS cred	lits)									
Compulsory Cours	es (25 EC	TS cred	lits)									
08-MCM3-102-	Princip	les of d	rug desig	'n								
m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	N	lodul level	graduate		
	Course	-		S + Ü	(no information of	n SWS (weekly contac	-	anguage avail	able)			
	Method	d of asso	essment			ssion (approx. 30 mir nt: German or English	utes)					
		oants ar of place		Cherr lot.	istry Master's and	Mathematics Master	s: no restrictions. Bio	chemistry Ma	ster's: 10 pla	aces. Places will be allocated by		

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08-MCM1-102-m01	Practic	Practical course medicinal chemistry											
	ECTS	10	Duration	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Course	S		P (no	information on SWS	(weekly contact hou	rs) and course language availa	ble)					
	Method of asses				ortestate (pre-experiment exams) and Nachtestate (post-experiment exams) (approx. 20 minutes), assessment of practical erformance, written report (approx. 30 to 50 pages) inguage of assessment: German or English								
08-MCM2-102-	Pharma	aceutica	l/Medici	nal Ch	al Chemistry								
m01	ECTS	10	Duration	n	3 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		V (no	V (no information on SWS (weekly contact hours) and course language available)								
	Method of assessment			oral examination of one candidate each (approx. 30 minutes) Language of assessment: German or English									
Supramolecular Ch	emistry	(25 ECT	S credits))									
Compulsory Cours	es (10 EC	TS cred	its)										
08-SCM1-102-m01	Supramolecular Chemistry (Basics)												
	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		S (no	information on SWS	(weekly contact hou	rs) and course language availa	ble)					
	Method of assessment			written examination (approx. 90 minutes) or oral examination of one candidate each (approx. 20 minutes) Language of assessment: German or English									
08-SCM2-102-m01	Supran	nolecula	ar Chemis	try (Pr	actical Course)								
	ECTS	5	Duration	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Course	S		P (no	information on SWS	6 (weekly contact hou	rs) and course language availa	ble)					
	Methoo	d of asse	essment	practical work, logs (approx. 5 pages each) Language of assessment: German or English									
Compulsory Electiv	/es (15 E	CTS crea	dits)										
08-ACM2-102-m01	Bioino	rganic C	hemistry										
	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S	-)	S (no	information on SWS	(weekly contact hou	rs) and course language availa	ble)					
	Method of assessment			a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral exa nation in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment the module coordinator will choose the method to be used for the module component in the current semester at the begin ning of the course. Language of assessment: German or English					everal methods of assessment,				

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08-0CM-FM-102-	Organi	Organic Functional Materials										
m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (no	information on S	NS (weekly contact hour	s) and course languag	e available)				
	Methoo	d of ass	essment	natio the m ning o	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral exami- nation in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the begin- ning of the course. Language of assessment: German or English							
08-SCM3-102-m01	Bioorg	anic Ch	emistry									
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S	•	S (no	information on S	WS (weekly contact hour	s) and course languag	e available)				
	Method	a of ass	essment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral exami- nation in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the begin- ning of the course. Language of assessment: German or English								
08-TCM2-102-m01	Computational Chemistry											
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			S + Ü (no information on SWS (weekly contact hours) and course language available)								
	Method of assessment			written examination (90 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 begin- ning of the course (usually 70% of exercises to be successfully completed) as well as regular attendance of exercises (usually a maximum of 2 incidents of unexcused absence).								
08-PCM3-102-m01	Nanoscale Materials											
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S + Ü	(no information o	n SWS (weekly contact h	ours) and course lang	uage available)				
	Methoo	d of ass	essment									
08-PCM5-102-m01	Physic	al chem	istry of s	upram	olecular assembli	es						
	ECTS	5	Duratio		1 semester	Method of grading	_	Modul level	graduate			
	Course	S		S + Ü	(no information o	n SWS (weekly contact h	nours) and course lang	uage available)				
	Methoo	d of ass	essment			o minutes) and/or oral e nt: German or English	xamination of one can	didate each (20 minute	es) and/or talk (30 minutes)			

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08-MCM3-102-	Princip	les of d	rug desig	n								
m01	ECTS	ECTS 5 Duration		ı	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	Courses			S + Ü (no information on SWS (weekly contact hours) and course language available)							
	Methoo	d of asse	essment		presentation with discussion (approx. 30 minutes) Language of assessment: German or English							
	Participants and allo- cation of places		Chemistry Master's and Mathematics Master's: no restrictions. Biochemistry Master's: 10 places. Places will be allocated by lot.									
Theoretical Chemis	stry (25 l	ECTS cre	edits)									
Compulsory Course	es (20 EC	CTS cred	lits)									
08-TCM1-102-m01	Theoretical Chemistry											
	ECTS 5 Duratio		า	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			S + Ü (no information on SWS (weekly contact hours) and course language available)								
	Method of assessment		written examination (90 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 begin- ning of the course (usually 70% of exercises to be successfully completed) as well as regular attendance of exercises (usually a maximum of 2 incidents of unexcused absence).									
08-TCM3-102-m01	Progra	mming i	in Theore	tical Cl	tical Chemistry							
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			S + Ü	S + Ü (no information on SWS (weekly contact hours) and course language available)							
				completion and discussion of approx. 5 programming exercises as well as talk (approx. 45 minutes) Language of assessment: German or English								

08-TCAP-102-m01	Theoretical Chemistry - Project work										
	ECTS 10	Duratio	n 1 se	mester	Method of grading	(not) successfully comple	ted Modul level	graduate			
	Courses		• 08- • 08-	 This module has 3 components; information on courses listed separately for each component. o8-TCAP-1-102: P (no information on language and number of weekly contact hours available) o8-TCAP-2-102: P (no information on language and number of weekly contact hours available) o8-TCAP-3-102: P (no information on language and number of weekly contact hours available) o8-TCAP-3-102: P (no information on language and number of weekly contact hours available) 							
	Method of a	ssessment		his module has the following 3 assessment components. To pass the module as a whole students must pass two out se three assessment components.							
			dynamik • 5 EC	 Assessment component to module component o8-TCAP-1-102: Theoretische Chemie Arbeitsgruppenpraktikum Wellenpaket- dynamik 5 ECTS credits, method of grading: (not) successfully completed 							
			• Lan	guage of asses nt component	rox. 30 minutes) ssment: German or Ei to module componer	nglish I t o8-TCAP-2-102: Theoretis	sche Chemie Arbeit	sgruppenpraktikum Wellenfunkti-			
			 pres Lan 	 5 ECTS credits, method of grading: (not) successfully completed presentation (approx. 30 minutes) Language of assessment: German or English ssessment component to module component o8-TCAP-3-102: Theoretische Chemie Arbeitsgruppenpraktikum Dichtefunkti 							
			 naltheorie 5 ECTS credits, method of grading: (not) successfully completed presentation (approx. 30 minutes) Language of assessment: German or English 								
	Additional I	nformation	Additional information on module duration: 4 weeks								
Compulsory Electiv	ves (5 ECTS cr	edits)	•								
08-TCM2-102-m01	Computational Chemistry										
	ECTS 5	Duratio	n 1 se	mester	Method of grading	numerical grade	Modul level	graduate			
	Courses		S + Ü (no i	nformation on	SWS (weekly contact	hours) and course languag	e available)				
	Method of a	ssessment	written examination (90 minutes) Language of assessment: German or English								
	other prerec	quisites	Admission prerequisite to assessment: successful completion of exercises in the respective classes as specified at the begin- ning of the course (usually 70% of exercises to be successfully completed) as well as regular attendance of exercises (usually a maximum of 2 incidents of unexcused absence).								
08-MCM3-102-	Principles o	f drug desig	ŗn								
m01	ECTS 5	Duratio	n 1 se	mester	Method of grading	numerical grade	Modul level	graduate			
	Courses		S + Ü (no i	nformation on	SWS (weekly contact	hours) and course languag	e available)				
	Method of a	ssessment	presentation with discussion (approx. 30 minutes) Language of assessment: German or English								
	Participants cation of pla		Chemistry lot.	Chemistry Master's and Mathematics Master's: no restrictions. Biochemistry Master's: 10 places. Places will be allocated by							
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08-NT-101-m01	Chemi	cally an	d biologia	ally in	spired Nanotechn	ology for Materials Sy	nthesis					
	ECTS	5	Duratio		1 semester	Method of grading		Modul level	undergraduate			
	Course			This r	 This module comprises 2 module components. Information on courses will be listed separately for each module component. o8-NT-1-101: V (no information on SWS (weekly contact hours) and course language available) o8-NT-2-101: V (no information on SWS (weekly contact hours) and course language available) 							
	Metho	Method of assessment			ssment in this mod	dule comprises the ass	essments in the individu	al module component	s as specified below. Unless all individual assessments.			
				 Assessment in module component o8-NT-1-101: Chemically and biologically inspired Nanotechnology for Materials Synthesis 2 ECTS, Method of grading: numerical grade oral examination (approx. 15 minutes) Assessment in module component o8-NT-2-101: From Biomineralisation to biologically inspired Materials Synthesis 3 ECTS, Method of grading: numerical grade oral examination (approx. 20 minutes) 								
08-FS1-101-m01	Materi	als Scie	ence 1 (Ba	sic Intr	c Introduction)							
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			V + Ü	V + Ü (no information on SWS (weekly contact hours) and course language available)							
	Method of assessment			writte	written examination (90 minutes)							
08-FS2-101-m01	Materials Science 2 (The Major Material Groups)											
	ECTS 5 Duratio			n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			V + Ü (no information on SWS (weekly contact hours) and course language available)								
	Metho	Method of assessment			written examination (approx. 90 minutes)							
03-TR-072-m01	Toxicology and legal studies											
	ECTS	3	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	es	<u> </u>	V + V (no information on SWS (weekly contact hours) and course language available)								
	Metho	d of ass	essment	written examination (approx. 90 minutes)								
08-BC-092-m01	Bioche	mistry										
	ECTS	6	Duratio	n	2 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	es		V + Ü	+ V + Ü (no inform	ation on SWS (weekly	contact hours) and cours	e language available)	•			
	Method of assessment			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 prerequisites			Admi ning o	Admission prerequisite to assessment: successful completion of exercises in the respective classes as specified at the begin- ning of the course (usually 70% of exercises to be successfully completed) as well as regular attendance of exercises (usually a maximum of 2 incidents of unexcused absence).							

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08-BCP-092-m01	Bioche	Biochemistry Lab										
	ECTS	5	Duration	า	1 semester	Method of grading	(not) successfully comple	ted Modul level	undergraduate			
	Course	s		P (no	P (no information on SWS (weekly contact hours) and course language available)							
	Method	Method of assessment		pre/post-experiment examination talks (Vortestate and Nachtestate, approx. 15 minutes each), practical work (log, approx. 5 to 10 pages)								
				Assessment offered: once a year, summer semester								
ĺ	Module comple		essfully		08-BC							
	Participants and allo- cation of places			a stan of pla (20%	Number of places: 24. Should the number of applications exceed the number of available places, places will be allocated in a standardised procedure among all applicants irrespective of their subjects according to the following quotas: Quota 1 (80% of places): grade achieved in module o8-BC; among applicants with the same grade, places will be allocated by lot. Quota 2 (20% of places): number of subject semesters of the respective applicant; among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated as they become available.							
08-ACM1-102-m01	Advanc	ed Inor	ganic Che	mistry	i la							
	ECTS	20	Duration	า	2 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses				 This module comprises 2 module components. Information on courses will be listed separately for each module component. o8-ACM1-1-102: S + S (no information on SWS (weekly contact hours) and course language available) o8-ACM1-2-102: P (no information on SWS (weekly contact hours) and course language available) 							
	Method of assessment		Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.									
	6			ced st	udents 10 ECTS, Method o a) 1 to 3 written exa c) oral examinatior Language of asses sment in module co 10 ECTS, Method o practical work with	f grading: numerical g aminations (90 to 120 n in groups (groups of sment: German or En pmponent 08-ACM1-2 f grading: (not) succe	grade o minutes each) or b) oral o f 2, 45 minutes) glish - 102: Inorganic Chemistry essfully completed) and talk (15 minutes)	examination of one	ents Inorganic Chemistry for advan- e candidate each (30 minutes) or r advanced			
08-ACM2-102-m01		<u> </u>			. <u></u>							
		5	Duration		1 semester	Method of grading	0	Modul level	graduate			
	Courses				. ,	rs) and course language a						
	Method of assessment		natior the m ning c	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral exami- nation in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the begin- ning of the course. Language of assessment: German or English								

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08-ACM3-102-m01	Solid state che	emistry a	nd inor	ganic materials							
	ECTS 5	Duratio	n	1 semester	Method of grading num	erical grade	Modul level	graduate			
	Courses		S (no	information on SWS	6 (weekly contact hours) ar	nd course language availa	ble)				
	Method of ass		a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral exami- nation in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the begin- ning of the course. Language of assessment: German or English								
08-HKM2-102-m01		Advanced organometallic chemistry and its application in homogeneous catalysis									
	ECTS 5	Duratio	n	1 semester	Method of grading num	erical grade	Modul level	graduate			
	Courses		-		6 (weekly contact hours) ar						
	Method of ass	essment	nation the m ning c	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral exami- nation in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the begin- ning of the course. Language of assessment: German or English							
08-OCM- SYNT-102-m01	Modern Synth	etic Meth	od								
	ECTS 5	Duratio	n	1 semester	Method of grading num	erical grade	Modul level	graduate			
	Courses		S + Ü	(no information on	SWS (weekly contact hours	s) and course language av	ailable)				
	Method of assessment		a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral exami- nation in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the begin- ning of the course. Language of assessment: German or English								
	other prerequi	sites	ning	Admission prerequisite to assessment: successful completion of exercises in the respective classes as specified at the begin- ning of the course (usually 70% of exercises to be successfully completed) as well as regular attendance of exercises (usually a maximum of 2 incidents of unexcused absence).							
08-0CM-	Advanced NMF	R- and Ma	iss Spe	ectrometry							
NMRMS-102-m01	ECTS 5	Duratio	n	1 semester	Method of grading num	erical grade	Modul level	graduate			
	Courses				(weekly contact hours) ar						
	Method of assessment		a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral exami- nation in groups (groups of 2, 30 minutes) Language of assessment: German or English								
08-0CM-AKP1-102-	· · · · · · · · · · · · · · · · · · ·	earch Pro	ject 1								
m01	ECTS 5	Duratio		1 semester	• • •) successfully completed		graduate			
	Courses		P (no	information on SWS	6 (weekly contact hours) ar	nd course language availa	ble)				
	Method of assessment			approx. 15 minutes) lage of assessment	and log (approx. 15 to 20 p German or English	pages)					

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08-0CM-NAT-102-	Modern Aspect	Modern Aspects of Natural Product Chemistry and Biological Chemistry								
m01	ECTS 5	Duratio	n	1 semester	Method of grading numerical g	grade	Modul level	graduate		
	Courses		S (no	information on SWS	(weekly contact hours) and cour	rse language availa	ble)			
	Method of asse	essment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral exami- nation in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the begin- ning of the course. Language of assessment: German or English							
	Participants an cation of place		Chem	Chemistry Master's: no restrictions. Biochemistry Master's: 20 places. Places will be allocated by lot.						
08-0CM-FM-102-	Organic Functi	onal Mat	erials		,					
m01	ECTS 5	Duratio	n	1 semester	Method of grading numerical g	grade	Modul level	graduate		
	Courses		S (no	information on SWS	(weekly contact hours) and cour	rse language availa	ble)			
	Method of assessment		nation the m ning c	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral exami- nation in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the begin- ning of the course. Language of assessment: German or English						
08-HKM1-102-m01	Organo- and B	iocatalys	is							
	ECTS 5	Duratio	n	1 semester	Method of grading numerical g	grade	Modul level	graduate		
	Courses		S (no	information on SWS	(weekly contact hours) and cour	rse language availa	ble)			
	Method of assessme			a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral exami- nation in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the begin- ning of the course. Language of assessment: German or English						
08-SCM1-102-m01	Supramolecula	r Chemis	try (Ba	sics)						
	ECTS 5	Duratio	n	1 semester	Method of grading numerical g	grade	Modul level	graduate		
	Courses	_	S (no information on SWS (weekly contact hours) and course language available)							
	Method of asse	essment		written examination (approx. 90 minutes) or oral examination of one candidate each (approx. 20 minutes) Language of assessment: German or English						
08-SCM3-102-m01	Bioorganic Che	emistry								
	ECTS 5	Duratio		1 semester	Method of grading numerical g	-	Modul level	graduate		
	Courses				(weekly contact hours) and cour		-			
	Method of asse	essment	nation the m ning c	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral ex nation in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessme the module coordinator will choose the method to be used for the module component in the current semester at the beg ning of the course. Language of assessment: German or English						

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08-TCM2-102-m01	Computati	onal Chemist	ry					
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		S + Ü	(no information o	n SWS (weekly contact	hours) and course la	nguage available)	
	Method of	assessment		n examination (90				
				-	nt: German or English			
	other prere	equisites	ning c	of the course (usua		o be successfully com		e classes as specified at the begin- ar attendance of exercises (usually
08-PCM1-102-m01	Advanced	Physical Che	mistry					
	ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses			08-PCM1-1-102: 9	S + Ü (no information o	n SWS (weekly conta	rses will be listed separa ct hours) and course lan ours) and course langua	
	Method of	assessment						nts as specified below. Unless of all individual assessments.
			Asses	5 ECTS, Method of written examinat Language of asso soment in module 5 ECTS, Method of Vortestate (pre-epages)	of grading: numerical g tion (90 minutes) or or essment: German or Er component 08-PCM1- of grading: (not) succe	rade al examination (20 mi oglish 2-102: Advanced Phys ssfully completed I Nachtestate (post-e	sical Chemistry (Lab)	/ rox. 15 minutes), log (approx. 15
08-PCM2-102-m01	Chemical I	Dynamics				-		
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		S+Ü	(no information o	n SWS (weekly contact	hours) and course la	nguage available)	
	Method of	assessment	writte	n examination (90			date each (20 minutes) o	or talk (30 minutes)
08-PCM3-102-m01	Nanoscale	Materials						
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		S + Ü	(no information o	n SWS (weekly contact	hours) and course la	nguage available)	
	Method of	assessment			o minutes) or oral exan nt: German or English	ination of one candio	date each (20 minutes) d	or talk (30 minutes)
08-PCM4-102-m01	Ultrafast s	pectroscopy	and qu	antum-control				
	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		S + Ü	(no information o	n SWS (weekly contact	hours) and course la	nguage available)	
	Method of	assessment	writte	n examination (or	o minutes) or oral exan	ination of one candid	date each (20 minutes) o	or talk (30 minutes)
	Method of				nt: German or English			

08-PCM5-102-m01	Physical chemistry of supramolecular assemblies									
	ECTS	5	Duratio		1 semester	Method of grading	_	Modul level	graduate	
	Course	S					hours) and course language av			
	Metho	d of asse	essment				examination of one candidate e	ach (20 minute	es) and/or talk (30 minutes)	
		1.01		0	age of assessment:	German or English				
08-PCM6-102-m01									· · · ·	
		5	Duration		1 semester			Modul level	graduate	
	Course			<u>`</u>		· /	rs) and course language availal	ole)		
	Metho	d of asse	essment		ntation (20 minutes) lage of assessment:					
08-TCM1-102-m01	Theore	tical Ch	emistry			1		1		
	ECTS	5	Duratio	ı	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Course	S		S + Ü	no information on S	SWS (weekly contact	hours) and course language av	ailable)		
	Metho	d of asse	essment		n examination (90 n					
					age of assessment:	•				
	other p	orerequis	sites		Admission prerequisite to assessment: successful completion of exercises in the respective classes as specified at the begin- ning of the course (usually 70% of exercises to be successfully completed) as well as regular attendance of exercises (usually					
						of unexcused abser		well as regular	attendance of excicises (asually	
08-BC-MOL-102-	Molecu	lar Biol	ogy							
m01	ECTS 5 Duratio		า	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		Ü + V (no information on SWS (weekly contact hours) and course language available)							
	Method of assessment		1 written examination (90 minutes) or 2 written examinations (60 to 90 minutes) Language of assessment: German or English							
08-BC-MOLP-102-	Moleci	lar Biol	ogy Pract	•		German of English				
m01	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Course					<u> </u>	rs) and course language availal			
	Metho	d of asse	essment	pre/post-experiment examination talks (Vor-/Nachtestate, approx. 15 minutes), log (approx. 5 to 10 pages)						
	method of assessment			Language of assessment: German or English						
	Participants and allo-			Number of places: 12. Should the number of applications exceed the number of available places, places will be allocated in						
	cation	of place	S	a standardised procedure among all applicants irrespective of their subjects according to the following quotas: Quota 1 (80% of places): grade achieved in module 08-BC; among applicants with the same grade, places will be allocated by lot. Quota 2						
				(20% of places): number of subject semesters of the respective applicant; among applicants with the same number of subject						
				seme	sters, places will be	allocated by lot. A w	aiting list will be maintained an	d places re-allo	ocated as they become available.	
		al cours	e "Molec	ular M	achines" for advanc					
m01	ECTS	10	Duratio		1 semester	Method of grading		Modul level	graduate	
	Course	S					rs) and course language availal	ole)		
	Metho	d of asse	essment	log (a	pprox. 20 pages) an lage of assessment:	d talk (approx. 15 mi	nutes)			
				Langu	משב טו מסשבסטוופווו:	German of Eligusti				

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08-BC-VPPD-102-	Practical course "Protein Degradation in Eukaryotes" for advanced students									
m01	ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		P (no	information on SWS	6 (weekly contact hou	irs) and course language availa	able)			
	Method of ass	sessment			id talk (approx. 15 mi	nutes)				
				lage of assessment:			1			
08-BC-VPRB-102- mo1		~		nistry" for advanced				1		
	ECTS 10	Duratio		1 semester	Method of grading		Modul level	graduate		
	Courses		-			rs) and course language availa	able)	-		
	Method of ass	sessment		pprox. 20 pages) an uage of assessment:	id talk (approx. 15 mi German or English	nutes)				
08-BC-VPSB-102-	Practical cour	rse "Struct	tural Bi	iology" for advance	d					
m01	ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		P (no	information on SWS	6 (weekly contact hou	rs) and course language availa	able)			
	Method of ass	sessment		log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German or English						
08-MCM3-102-	Principles of	drug desig	'n							
m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		S + Ü	(no information on S	SWS (weekly contact	hours) and course language a	vailable)	-		
	Method of as	sessment	presentation with discussion (approx. 30 minutes) Language of assessment: German or English							
	Participants a cation of plac		Chemistry Master's and Mathematics Master's: no restrictions. Biochemistry Master's: 10 places. Places will be allocated by lot.							
08-PH-KAC-092-	Clinical and A	nalytical (Chemis	stry						
m01	ECTS 5	Duratio	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 (120 minutes)									
08-PH-KACP-092-	Clinical and Analytical Chemistry (practical course)									
m01	ECTS 5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Courses		P (no	P (no information on SWS (weekly contact hours) and course language available)						
	Method of ass	sessment	exam	examination talks (Testate, approx. 15 minutes each), log (approx. 5 to 10 pages)						
08-FMM-MP-102-	Lab Course Materials Science									
m01	ECTS 5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Courses		P (no	information on SWS	6 (weekly contact hou	rs) and course language availa	able)			
	Method of ass	sessment	manc	state (pre-experime e, log (5 to 10 pages Jage of assessment:	;)	estate (post-experiment exams	s) (15 minutes), a	assessment of practical perfor-		

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08-FMM-PA-102-	Project	t Work							
m01	ECTS	5	Duratio	า	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Course	es		P (no	information on SWS	(weekly contact hou	rs) and course language availa	able)	
	Metho	d of ass	essment			and log (approx. 15 p	ages)		
				-	lage of assessment	: German or English			
08-FMM-CT-102-		1	erials (Le		1			1	
m01	ECTS	5	Duratio		1 semester	Method of grading		Modul level	graduate
	Course	-	_		<u>`</u>	. ,	hours) and course language av		_
	Metho	d of asso	essment	ons: 6	60 or 90 minutes ea	ch; 3 written examina		oral examinatio	: 90 minutes; 2 written examinati- n of one candidate each (approx.
08-HKM3-102-m01	Practic	al cours	e "Homo	geneo	us catalysis"				
	ECTS	10	Duratio	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Course	:S		P + P	(no information on S	SWS (weekly contact	hours) and course language av	/ailable)	
			essment	Langu	lage of assessment		es) and talk (approx. 15 minute	s)	
08-HKM4-102-m01	Advand	ced tran	sition me	tal che	emistry				
	ECTS	5	Duratio		1 semester	Method of grading	_	Modul level	graduate
	Courses			S (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment				n in groups (groups	of 2, 30 minutes). Sh vill choose the metho	ould there be the option to cho	oose between s	ch (20 minutes) or c) oral exami- everal methods of assessment, e current semester at the begin-
08-MCM1-102-m01	Practic	al cours:	e medici	nal che	emistry				
	ECTS	10	Duratio	า	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Course	!S		P (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment			Vortestate (pre-experiment exams) and Nachtestate (post-experiment exams) (approx. 20 minutes), assessment of practical performance, written report (approx. 30 to 50 pages) Language of assessment: German or English					
08-MCM2-102-	Pharm	aceutica	l/Medici	nal Ch	emistry				
m01	ECTS	10	Duratio	1	3 semester	Method of grading	numerical grade	Modul level	graduate
	Course	S					rs) and course language availa	able)	
	Metho	d of ass	essment		xamination of one o lage of assessment	andidate each (appro: German or English	ox. 30 minutes)		

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08-SCM2-102-m01	Supram	olecula	r Chemis	try (Pr	actical Course)					
	ECTS	5	Duration	า	1 semester	Method of grading	(not) successfully	y completed	Modul level	graduate
	Courses	5		P (no	information on SWS	(weekly contact ho	urs) and course lan	guage availal	ble)	
	Method	ofasse	essment		cal work, logs (appro					
0.7614	<u> </u>				age of assessment:	German or English	_		,	
08-TCM3-102-m01		-								
		5	Duration		1 semester	Method of grading			Modul level	graduate
	Courses				(no information on S				-	
	Method	orasse	essment		letion and discussio age of assessment:		amming exercises	as well as tail	к (approx. 45 m	linutes)
08-TCAP-102-m01	Theoret	ical Ch	emistry -	Projec	t work					
	ECTS	10	Duration	1	1 semester	Method of grading	(not) successfully	y completed	Modul level	graduate
	Courses	5		•	nodule has 3 compo 08-TCAP-1-102: P (r 08-TCAP-2-102: P (r 08-TCAP-3-102: P (r	no information on la no information on la	nguage and numbe nguage and numb	er of weekly co er of weekly c	ontact hours av ontact hours av	vailable) vailable)
	Addition			se thr Asses dynan Asses onsm Asses nalthe	ee assessment comp sment component to 5 ECTS credits, met presentation (appro Language of assess sment component to ethoden 5 ECTS credits, met presentation (appro Language of assess sment component to eorie 5 ECTS credits, met presentation (appro Language of assess	ponents. o module components hod of grading: (not ox. 30 minutes) sment: German or Ent o module component hod of grading: (not ox. 30 minutes) sment: German or Ent hod of grading: (not ox. 30 minutes) sment: German or Ent box. 30 minutes) sment: German or Ent sment: Germa	nt o8-TCAP-1-102: ⁻) successfully com nglish nt o8-TCAP-2-102:) successfully com nglish nt o8-TCAP-3-102:) successfully com	Theoretische (pleted Theoretische pleted Theoretische	Chemie Arbeits Chemie Arbeits	udents must pass two out of the- gruppenpraktikum Wellenpaket- sgruppenpraktikum Wellenfunkti-
					onal information on	module duration: 4	weeks		1	
08-WRM1-102-m01		- /	·							1
		5	Duration		1 semester	Method of grading				graduate
	Courses				information on SWS			iguage availa	ble)	
	Method	of asse	essment		ration of materials for age of assessment:		nd exercises			

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08-WRM2-102-	Tutoring 2 (practical course)									
m01	ECTS	5	Duration	l	1 semester	Method of grading (not) successfully completed	Modul level	graduate		
	Course	s		Ü (no	information on SWS	(weekly contact hours) and course language avai	lable)	·		
	Method	d of asse	essment			or demonstrations and exercises				
		1	1	Langu	age of assessment:	German or English				
08-APM1-102-m01	Foreigr	Studie	s (short)							
	ECTS	5	Duration	า	1 semester	Method of grading (not) successfully completed	l Modul level	graduate		
	Course	s		P (no	information on SWS	(weekly contact hours) and course language avai	lable)			
	Method	d of asse	essment			naving completed lab course German or English; language of the respective pla	acement country	where required		
	other prerequisites			Admission prerequisite to assessment: regular attendance of placement.						
08-APM2-102-m01	Foreign Studies (long)									
	ECTS 10 Duratio			۱	2 semester	Method of grading (not) successfully completed	Modul level	graduate		
	Course	S		P (no information on SWS (weekly contact hours) and course language available)						
	Method	d of asse	essment			naving completed lab course German or English; language of the respective pla	acement country	where required		
	other p	rerequis	sites	Admis	sion prerequisite to	assessment: regular attendance of placement.				
Thesis (30 ECTS credits)										
08-MA-102-m01	Master's Thesis									
	ECTS	30	Duratio	l	1 semester	Method of grading numerical grade	Modul level	graduate		
	Courses			no courses assigned						
	Method of assessment				n thesis age of assessment:	German or English				
	other prerequisites			Where	e applicable, specific	modules as specified by supervisor.				