

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: 2016

Abbreviations used: Course types: **E** = field trip, **K** = colloquium, **O** = conversatorium, **P** = placement/lab course, **R** = project, **S** = seminar, **T** = tutorial, **Ü** = exercise, **V**

= lecture

Term: **SS** = summer semester, **WS** = winter semester

Methods of grading: NUM = numerical grade, B/NB = (not) successfully completed

Regulations: (L)ASPO = general academic and examination regulations (for teaching-degree programmes), FSB = subject-specific provisions, SFB

= list of modules

Other: **A** = thesis, **LV** = course(s), **PL** = assessment(s), **TN** = participants, **VL** = prerequisite(s)

Conventions for the modules in this SFB:

Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not creditable for bonus.

Information on assessment procedures:

Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the method of assessment to be used in the current semester by two weeks after the start of the course at the latest and will communicate this in the customary manner.

Should a module comprise more than one graded assessment, all assessments will be equally weighted, unless otherwise stated below.

Should the assessment comprise several individual assessments, successful completion of the module will require successful completion of all individual assessments.

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

ASP02015

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

15-Dec-2015 (2015-257)

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	be specified in the form X (y) with course type X abbreviated as specified above and number of weekly contact hours y								
	Method of as	ssessm	ent									
	Only after su completion of		ıl if applica	applicable								
	Other prereq	uisites	if applica	ble								
	Participants on of places		ocati- if applica	if applicable								
	Additional in	format	ion if applica	ble								
	Referred to in	n LPO I	if applica	ble (examination re	gulations for teaching	g-degree programmes)						

Compulsory Elective Students must take	res Focuses (75 e three focuses	5 ECTS cre	dits) 1 throu	gh 3 pursuant to Sec	tion 3 Subsection 2 S	Sentence 2 FSB (subject-specif	fic provisions))	worth 25 ECTS credits each; provi-						
sions on available	combinations	are set out	in Sec	tion 3 Subsection 2 S	Sentence 8 FSB.		' "							
Inorganic Chemistr	y (25 ECTS cre	edits)												
Compulsory Course	es (20 ECTS cre	edits)												
o8-ACM1-161-mo1		Advanced Inorganic Chemistry SCTS 10 Divertism 2 2 2 2 2 2 2 2 2												
	ECTS 10	Duratio		2 semester	Method of grading	numerical grade	Modul level	graduate						
	Courses			(3) + S (3)) written examination (approx. 90 to 180 minutes) or										
	Method of as	sessment	b) ora c) ora d) log e) pre	l examination of one l examination in gro (approx. 20 pages) sentation (approx. 3	e candidate each (20 ups of up to 3 candid or	to 30 minutes) or lates (approx. 15 minutes per c	andidate) or							
08-ACPM-161-m01	Inorganic Che	emistry pr	actical	course for advanced										
	ECTS 10	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate						
	Courses		P (24) Modu	P (24) Module taught in: German or English										
	Method of as	sessment		report on practical course (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English										
	Additional Inf	formation	Addit	ional information on	module duration: bl	ock taught lab course with app	rox. 40 working	g days.						
Compulsory Electiv	es (5 ECTS cre	dits)												
08-ACM2-161-m01	Bioinorganic	Chemistry	7											
	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate						
	Courses		S (3) Modu	le taught in: Germar	n or English									
	Method of assessment a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English													
08-ACM3-161-m01	Solid state ch	hemistry a	nd inor	ganic materials										
	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate						
	Courses		S (3)	S (3)										
	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													

08-HKM2-161-m01	Advance	Advanced organometallic chemistry and its application in homogeneous catalysis												
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses	5		S (3)				7						
					le taught in: Germa									
	Method	of asse	essment			approx. 90 to 180 min								
) oral examination of one candidate each (20 to 30 minutes) or oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or									
					d) log (approx. 20 pages) or									
				e) pre	presentation (approx. 30 minutes) Inguage of assessment: German and/or English									
				Langu	lage of assessmen	t: German and/or Eng	lish							
Organic Chemistry	(25 ECTS	credit	s)											
Compulsory Course	es (15 ECT	TS cred	its)											
08-OCM-SYNT-161-	Modern	Synthe	etic Meth	ods										
mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses	5		S (2) -										
					le taught in: Germa									
	Method	of asse	essment	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or										
					oral examination of one candidate each (20 to 30 minutes) or) 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									
			. <u> </u>			t: German and/or Eng	lish							
08-OCM-AKP1-161-			i		ř – ř	1		T						
mo1		10	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	graduate					
	Courses				le taught in: Germa									
	Method	of asse	essment			ges) and talk (approx.								
				Langu	lage of assessmen	t: German and/or Eng	lish							
Compulsory Electiv														
o8-OCM-NAT-161-		Aspect			duct Chemistry an	d Biological Chemist	ř – – – – – – – – – – – – – – – – – – –							
mo1	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses	5		S (3)	le taught in: Germa	an or English								
	Method	of asse	essment	a) written examination (approx. 45 to 90 minutes) or										
				b) ora	b) oral examination of one candidate each (20 to 30 minutes) or									
					c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English									
					MA Chemie: unbegrenzt, Ma Biochemie: 20 places. Places will be allocated according to the number of subject semesters.									
					Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintai-									
						ited by lot as they bed			5	•				
Master's with 1 major Che	emistry (2016	6)				'	JMU Würzburg • generated 19-Apr-20	o25 • exam. reg. data	record 88 032 - - H 2016 p	page 4 / 60				

08-OCM-FM-161-	Organi	c Functi	onal Mate	erials							
mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		S (3)							
	Method	d of asse	essment	b) ora c) ora d) log e) pre	l examination of on l examination in gro (approx. 20 pages) sentation (approx.	or	to 30 minutes) or lates (approx. 15 min	utes per candidate) or			
08-HKM1-152-m01	Organo	- and B	iocatalysi	is							
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S	S (3)								
	Method	d of asse	essment	ment a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English							
08-SCM1-152-m01	Supran	nolecula	r Chemis	try (Ba	sics)						
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		S (3)							
	Method	d of asse	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) Language of assessment: German and/or English								
08-SCM3-152-m01	Bioorga	anic Che	emistry								
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		S (3)							
				b) ora c) ora Langı	l examination of on l examination in gro lage of assessment	pprox. 45 to 90 minu le candidate each (2c oups of up to 3 candio : German and/or Eng	to 30 minutes) or lates (15 to 30 minute	s per candidate)			
08-TCM2-161-m01	Basics	and App	olications	of Qu	antum Chemistry						
	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	Courses S (2) + Ü (2)									
	Method	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									

Physical Chemistry	(25 ECT	'S credits	s)									
Compulsory Course	es (10 EC	TS credi	ts)									
o8-PCM1a-161-	Laser S	pectros	сору									
mo1	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			S (2) + Ü (1) Module taught in: German or English							
	Method	d of asse	ssment	b) ora	l examination of one	oprox. 90 minutes) or e candidate each (ap German and/or Engl	prox. 20 minutes)					
08-PCM1b-161-	Advanc	ed Phys	ical Cher	mistry	ry (Lab)							
mo1	ECTS	5	Duration	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course	S		P (4) Modu	le taught in: Germar	n or English		•				
	Method	Nethod of assessment Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 page and assessment of practical performance (2 to 4 random examinations) Language of assessment: German and/or English							h, log approx. 5 to 10 pages each)			
	Additio	nal Infor	mation	Additi	onal information on	module duration: bl	ock taught lab course with app	orox. 20 working	g days.			
Compulsory Electiv	es (15 E	CTS cred	its)									
08-PCM2-161-m01	Statist	tical Mechanics and Reaction Dynamics										
	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (2) + Modu	- Ü (1) le taught in: Germar	n or English						
	Method	d of asse	ssment	b) ora c) talk	l examination of one (approx. 30 minute	pprox. 90 minutes) or e candidate each (ap s) German and/or Engl	prox. 20 minutes) or					
o8-PCM3-161-mo1	Nanoso	ale Mate	erials					,				
	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (2) + Ü (1) Module taught in: German or English								
	Method	d of asse	ssment	b) ora c) talk Langu	l examination of one (approx. 30 minute	oprox. 90 minutes) or e candidate each (ap s) German and/or Engl	prox. 20 minutes) or					

08-PCM4-161-m01	Ultrafast spectroscopy and quantum-control												
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	S		S (2) + Modu	⊦ Ü (1) le taught in: German	n or English							
	Method	l of asse	essment	b) ora c) talk Langu	l examination of one (approx. 30 minute age of assessment:	German and/or Engl	prox. 20 minutes) or ish						
		rerequis			Prior completion of modules o8-PCM1a and o8-PCM1b recommended.								
o8-PCM5-161-mo1		al Chem	istry of S	upram	pramolecular Assemblies								
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	S		S (2) + Modu	+ Ü (1) le taught in: German	n or English							
	Method	l of asse	essment	b) ora c) talk	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes) Language of assessment: German and/or English								
08-PCM6-161-m01	Physica	al Chem	istry (Adv	ranced Lab)									
	ECTS	5	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Courses	S		P (4) Modu	le taught in: German	n or English							
	Method	l of asse	essment		ntation (approx. 20 i lage of assessment:	minutes) German and/or Engl	ish						
	Additio	nal Info	rmation	Additi	onal information on	module duration: blo	ock taught lab course with app	rox. 20 working	days.				
o8-TCM1-161-mo1	Selecte	d Topic	s in Theo	retical	Chemistry								
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	S		S (2) +	+ Ü (2)								
	Method	l of asse	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 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English									

08-TCM2-161-m01	Basics	and Ap	plications	of Qua	antum Chemistry							
	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (2) -	+ Ü (2)			-				
	Method				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							
Biochemistry (25 E	CTS cred	lits)										
Compulsory Course	es (15 EC	TS cred	its)									
o8-BC-	Molecu	ılar Biol	ogy for A	dvance	vanced Students							
MOLMC-161-mo1	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (2) -	+ Ü (1)			- 8				
	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								

08-BC-MOLP-152-	Molecu	ılar Bio	ology laboratory course										
mo1	ECTS	10	Duratio	n	1 semester	Method of gradi	ng numerical grade	Modul leve	l undergraduate				
	Course	S		P (5)				•					
	Method	d of ass	essment		a) written examination (approx. 45 to 90 minutes) or								
					g (10 to 20 pages)		· · · · · · · · · · · · · · · · · · ·						
							(20 to 30 minutes) or	o minutes ner candida	te) or				
				d) oral examination in groups of up to 3 candidates (approx. 15 to 20 minutes per candidate) or e) presentation (20 to 30 minutes) or									
				f) pra	f) practical examination (on average approx. 2 hours; time to complete will vary according to subject area but will not exceed a								
					mum of 4 hours)	nt. Cormon and/or F	n aliah						
					Language of assessment: German and/or English Assessment offered: Once a year, winter semester								
	Particip	nants ai	nd allo-			try), Bachelor's: 24 p							
	cation			Selec	tion process Bioc	hemie (Biochemistry), Bachelor's (180 ECTS		ımber of applications exceed the				
									iota 1 (two thirds of places): current				
									age grade, places will be allocated by t; among applicants with the same				
									ned and places re-allocated as they				
				beco	me available.	• •	,	•	,				
				Chemie (Chemistry), Master's: 6 places. Selection process Chemie (Chemistry), Bachelor's (120 ECTS credits): Places will be									
				allocated according to the number of subject semesters. 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 by lot as they become available.									
Compulsory Electiv	es (10 F	CTS cre	dits)	CC3 W	ses will be allocated by tot. A waiting list will be maintained and places re-allocated by tot as they become available.								
•	· ·			ular Machines" for advanced students									
mo1		10	Duration		1 semester		ng numerical grade	Modul leve	l graduate				
	Course		1 - 0.10.0	P (10)	I		.5	1	3				
	Method	d of ass	essment	` ′		and talk (approx. 15	minutes)						
						nt: German and/or E							
	Module comple		essfully	08-B	C-MOLP			,					
	Additio	nal Info	ormation	Addit	ional information	on module duration	: block taught lab cours	e with approx. 40 work	ing days.				
08-BC-VPPD-161-		al cour	se "Protei	n Deg	radation in Eukary	otes" for advanced	students	,					
mo1	ECTS	10	Duration	n	1 semester	Method of gradi	ng numerical grade	Modul leve	l graduate				
	Course	S		P (10))								
	Method	d of ass	essment	Log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English									
	Module comple		essfully	o8-BC-MOLP									
1													

08-BC-VPRB-161-	Practic	actical course "RNA Biochemistry" for advanced students										
mo1	ECTS	10	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		P (10)								
	Method	d of asse	essment			id talk (approx. 15 mi German and/or Engl						
	Module comple		essfully	o8-B0	C-MOLP			,				
	Additio	nal Info	rmation	Addit	dditional information on module duration: block taught lab course with approx. 40 working days.							
08-BC-VPSB-161-	Practic	al cours	e "Struct	ural B	al Biology" for advanced students							
mo1	ECTS	10	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S	-	P (10)								
	Method	d of asse	essment	Log (a	approx. 20 pages) ar uage of assessment:	id talk (approx. 15 mi German and/or Engl	inutes) Iish					
	Module comple	es succe eted	essfully	o8-B0	C-MOLP							
	Additio	onal Information Additional information on module duration: block taught lab course with approx. 40 working days.										
08-ACM2-161-m01	Bioinor	ganic C	hemistry	у								
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (3) Modu	ıle taught in: Germar	n or English						
	Method	d of asse	essment	b) ora	al examination of one Il examination in gro	oprox. 45 to 90 minute e candidate each (20 ups of up to 3 candic German and/or Engl	to 30 minutes) or dates (15 to 30 minutes per	candidate)				
08-HKM1-152-m01	Organo	- and B	iocatalys	is	,							
	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (3)								
	Method	d of asse	essment	a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English								

08-OCM-NAT-161-	Moderi	n Aspec	ts of Natu	ral Pro	duct Chemistry and	d Biological Chemistry						
mo1	ECTS	5	Duratio	1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		S (3) Modu	ıle taught in: Germa	n or English						
	Method	d of ass	essment	b) ora	n) written examination (approx. 45 to 90 minutes) or n) oral examination of one candidate each (20 to 30 minutes) or n) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) nanguage of assessment: German and/or English							
		pants ar of place		Amor	ng applicants with th	Ma Biochemie: 20 places. Places will be allocated ne same number of subject semesters, places will be ted by lot as they become available.						
08-MCM3-152-m01	Drug de	esign										
	ECTS	5	Duratio	า	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S) + Ü (1) dule taught in: German or English							
	Method of assessment					sion (approx. 30 minutes) : German and/or English						
	Participants and allo- cation of places			the sa will b ted b ding t	ame number of subj e given preferential y lot.; 6 places for si to the number of sul	tudents of the Master's degree programme Chemie ect semesters; students who have chosen Medizin consideration; among applicants with the same nutudents of the Master's degree programme Biocher bject semesters; among applicants with the same rivill be maintained and places re-allocated by lot as	ische Chemie (M Imber of subject nie (Biochemistr Iumber of subjec	ledicinal Chemistry) as their focus semesters, places will be alloca- y): Places will be allocated accor- ct semesters, places will be alloca-				
08-PH-KAC-152-	Clinica	l-analy1	tical Chen	nistry			"					
mo1	ECTS	5	Duratio	1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		V (3)								
				Langı		orox. 120 minutes) : German and/or English						
08-PH-KACP-152-	Practic	al cours	se of clinic	cal-ana	alytical Chemistry							
mo1	ECTS 5 Duration			1	1 semester	Method of grading (not) successfully completed	Modul level	undergraduate				
	Course	S		P (5)								
	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								

Functional Materia	ls (25 EC	TS cred	its)									
Compulsory Course	es (20 EC	TS cred	lits)									
o8-FU-Ma-	Materia	al Scien	ce 1 (Basi	c intro	duction)							
Wi1-152-m01	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course			V (3) +								
				b) ora c) ora d) log e) pre	l examination of one l examination in grou (approx. 20 pages) sentation (approx. 3	or , ,	to 30 minutes) or lates (approx. 15 minutes per c	andidate) or				
08-FMM-PA-161-	Project	Project Work										
mo1	ECTS	5	Duratio	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course			P (10)								
			Log (approx. 15 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English									
o8-OCM-FM-161-	Organi	ganic Functional Materials										
mo1	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (3)								
	Method	d of asse	essment	b) ora c) ora d) log e) pre	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							
o8-FMM-MP-161-	Lab Co	urse Ma	terial Sci	ence								
mo1	ECTS	5	Duratio	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course	S		P (8)								
	Method	d of asse	essment	and a	ssessment of practio		4 random examinations)	15 minutes eac	h, log approx. 5 to 10 pages each)			

Compulsory Electiv	ves (5 EC	TS cred	its)											
o8-FU-Ma-	Materia	al Scien	ce 2 (The	Mater	ial Groups)									
Wi2-152-m01	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Course	S	`	V (3) -	+ Ü (1)		•							
	Method	of ass	essment	a) wri	tten examination (a	pprox. 90 to 180 mir	utes) or							
						ne candidate each (20		(
					ral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or og (approx. 20 pages) or									
					presentation (approx. 30 minutes)									
				Langu	anguage of assessment: German and/or English									
08-FU-NT-152-m01	Chemic	ally an	nd bio-inspired Nanotechnology for Material Synthesis											
	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Course	S		V (4)										
	Method	d of ass	essment	a) wri	tten examination (a	pprox. 90 to 180 mir	iutes) or							
					oral examination of one candidate each (20 to 30 minutes) or oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or									
					d) log (approx. 20 pages) or									
				e) pre	e) presentation (approx. 30 minutes)									
					Language of assessment: German and/or English									
o8-FU-Mo-	$\overline{}$	lar Mat	erials (Le	cture)										
MaV-152-mo1	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Course			V (3) -										
	Method	l of ass	essment						each (20 to 30 minutes) or c) oral					
							approx. 15 minutes per 30 minutes), weighted		pprox. 20 pages) or e) presentation					
						: German and/or Eng		1 3.1						
03-FU-PM1-152-	Polyme	r Chem	istry 1 (Le	cture	and Practical Cours	e)		-						
mo1	ECTS	5	Duration	<u> </u>	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Course	S	,	V (2) -	+ P (2)	•	•	•						
	Method	thod of assessment a) assessment and b) Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, lo												
			prox. 5 to 10 pages each) and assessment of practical assignments (2 to 4 random examinations) Language of assessment: German and/or English						tions)					
						:: German and/or Eng ce a year, winter sem								
					able for bonus	.e a year, willter Selfi	ESLEI							
				c. cuit										

03-FU-PM2-161-	Polyme	Polymers II											
mo1	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	S		S (2) ·	+ Ü (1)								
	Method of assessment			b) ora c) tall	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes) Language of assessment: German and/or English								
08-PCM3-161-m01	Nanosc	ale Mat	erials										
	ECTS	5	Duratio	<u> </u>	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	S			+ Ü (1) le taught in: Germa	n or English							
	Method	l of asse	essment	b) ora c) tall Langu	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes) Language of assessment: German and/or English creditable for bonus								
08-SCM1-152-m01	Supran	nolecula	r Chemis	try (Ba	sics)								
	ECTS	5	Duratio	1	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	s		S (3)									
	Method	l of asse	essment	b) ora	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) Language of assessment: German and/or English								
o8-ACM3-161-mo1	Solid s	tate che	mistry ar	nd inor	ganic materials								
	ECTS	5	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate					
	Course			S (3)			,						
	Method	l of asse	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 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English									

Homogeneous Catalysis (25 ECTS credits)												
Compulsory Course	s (20 EC	CTS cred	lits)									
08-HKM1-152-m01	Organo	o- and B	iocatalysi	is	S							
	ECTS	5	Duration	n 1 semester		Method of grading	numerical grade	Modul level	graduate			
	Course			S (3)	5 (3)							
	Method of assessment a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English											
08-HKM2-161-m01	Advanc	ed orga	nometall	ic cher	nistry and its applica	ation in homogeneo	us catalysis					
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (3) Modu	le taught in: German	or English						
	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								
o8-HKM3AC-161-		al cours	e "Homo	geneou	ıs catalysis in Inorga							
mo1	ECTS	5	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course			P (6) Modu	le taught in: German	or English						
	Method	d of asse	essment		on practical course age of assessment:		x. 10 pages) and talk (approx. 15 minutes) n and/or English					
o8-HKM3OC-161-	Practic	al cours	e "Homo	geneou	geneous catalysis in Organic Chemistry"							
mo1	ECTS 5 Duration				1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Courses			P (6) Module taught in: German or English								
	Method of assessmen				report on practical course (approx. 10 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English							

Compulsory Electiv	es (5 EC	TS cred	its)										
08-HKM4-161-m01	Advan	ced tran	sition me	tal che	emistry								
	ECTS	5	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	:S	•	S (3)				•					
	Metho	d of asse	essment	b) ora c) ora d) log	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)								
						t: German and/or Engl	sh	,					
08-PCM2-161-m01		ical Med			ction Dynamics								
	ECTS 5 Duratio				1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	!S		S (2) - Modu	+ Ü (1) le taught in: Germ	an or English							
	Metho				a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes) Language of assessment: German and/or English								
08-0CM-SYNT-161-	Moder	Modern Synthetic Methods											
mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	!S		S (2) - Modu	+ Ü (1) le taught in: Germ	an or English							
	Metho	d of asse	essment	b) ora c) ora d) log e) pre	Il examination of o I examination in gr (approx. 20 pages sentation (approx	s) or	to 30 minutes) or ates (approx. 15 minute	es per candidate) or					
08-TCM2-161-m01	Basics	and App	olications	of Qu	antum Chemistry								
	ECTS				1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	!S		S (2) -	+ Ü (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									

03-FU-PM1-152-	Polyme	r Chem	istry 1 (Le	cture and Practical Course)								
mo1	ECTS	5	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		V (2) ·	+ P (2)			,				
				prox. Langu Asses	a) assessment and b) 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 creditable for bonus							
Medicinal Chemist	, , ,		<u> </u>									
Compulsory Course												
08-MCM1-161-m01					· · · · · · · · · · · · · · · · · · ·		T					
		10	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course				le taught in: Germa							
	Method	d of asse	essment	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) as well as report (30 to 50 pages) Language of assessment: German and/or English								
08-MCM3-152-m01	1 Drug design											
	ECTS	5	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (2) · Modu	+ Ü (1) le taught in: Germa	n or English						
	Method	d of asse	essment	presentation with discussion (approx. 30 minutes) Language of assessment: German and/or English								
	Particip cation o	oants an		the sa will be ted by ding t	ame number of subjee given preferential lot.; 6 places for so the number of su	ect semesters; stude consideration; amon tudents of the Maste bject semesters; amo	nts who have chosen Medizini g applicants with the same nu r's degree programme Biochen	ische Chemie (N mber of subject nie (Biochemistr umber of subjec	ces will be allocated according to ledicinal Chemistry) as their focus semesters, places will be allocay): Places will be allocated accorts semesters, places will be allocaailable.			
Compulsory Course	es (10 EC	TS cred	its)									
o8-MCM2a-161-	Pharma	aceutica	l/Medicii	nal Ch	emistry 1							
mo1	ECTS	5	Duration	1 V (3)	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses											
	Method of assessment			b) ora c) ora d) log e) pre	Il examination of on I examination in gro (approx. 20 pages) sentation (approx.	or	o to 30 minutes) or dates (approx. 15 minutes per o	candidate) or				

08-MCM2b-161-	Pharma	Pharmaceutical/Medicinal Chemistry 2												
mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course			V (3)										
	Method	of ass	essment	a) wri	tten examination	(approx. 90 to 180 min	utes) or							
						one candidate each (20	to 30 minutes) or lates (approx. 15 minutes per c	andidata) ar						
					(approx. 20 page		iales (approx. 15 illillules per c	andidate) of						
				e) pre	sentation (approx	. 30 minutes)								
				Language of assessment: German and/or English										
08-MBC-MSP-161-				Proteomics										
mo1		5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	S 			+ S (1) + P (2) le taught in: Germ	ian or English			_					
	Method	d of ass	essment			(approx. 45 to 90 minu	tes) or							
					(20 to 30 pages)		to 30 minutes) or							
				d) ora	c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) or									
				e) presentation (20 to 40 minutes)										
				Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered, no less than once a year										
	Particip	ants ar	nd allo-	67 pla		The Semester in Willen	the course is offered, no less th	Tan once a year						
	cation													
Supramolecular Ch														
Compulsory Course	s (10 EC	TS cred	lits)											
08-SCM1-152-m01				nistry (Basics)										
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course			S (3)	-									
	Method	d of ass	essment	b) ora	l examination of c	(approx. 90 minutes) o one candidate each (ap nt: German and/or Engl	prox. 20 minutes)							
08-SCM2-161-m01	Supran	nolecula	ar Chemis	try (Pr	actical Course)									
	ECTS	5	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate					
	Course	S		P (6) Modu	le taught in: Germ	ian or English								
	Method	d of ass	essment	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										
	Modules successfully completed			08-SCM1										

Compulsory Electives (15 ECTS credits)											
08-SCM3-152-m01											
	ECTS		Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		S (3)							
	Method	Method of assessment		b) ora c) ora	a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English						
08-SCM4-161-m01	Supran	nolecula	r Chemis	try (Ad	lvanced Lab)						
	ECTS	5	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Course	S		P (6) Modu	le taught in: Germar	n or English					
	Method	d of asse	essment		esentation (approx. 20 minutes) nguage of assessment: German and/or English						
	Module comple	es succe eted	ssfully	08-SC	08-SCM2						
	Additio	nal Info	formation Additional information on module duration: block taught lab course with approx. 20 working days.								
08-PCM5-161-m01	Physica	al Chem	istry of S	upramolecular Assemblies							
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		S (2) - Modu	+ Ü (1) le taught in: Germar	n or English					
	Method	d of asse	essment	b) ora c) talk	l examination of one (approx. 30 minute	oprox. 90 minutes) or e candidate each (app s) German and/or Englis	ŕ				
08-ACM2-161-m01	Bioinor	ganic C	hemistry								
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		S (3) Modu	S (3) Module taught in: German or English						
	Method of assessment			a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English							

08-TCM2-161-m01	Basics	and App	plications	of Qu	antum Chemistry	,		_			
	ECTS	5	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	S		S (2)	+ Ü (2)			•			
	Method	of ass	essment			(approx. 90 to 180 min					
						one candidate each (20		toc nor candidata) or			
					oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or) log (approx. 20 pages) or						
				e) pre	sentation (appro	x. 30 minutes)					
	Language of assessment: German and/or English										
08-0CM-FM-161- mo1			onal Mate		Т	1					
11101		5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			S (3)			. \				
	Method	d of asso	essment			(approx. 90 to 180 min one candidate each (20					
						groups of up to 3 candid		tes per candidate) or			
				d) log	(approx. 20 page	es) or		,			
					sentation (appro						
08-PCM3-161-m01	Nanosc	alo Mai	torials	Lange	age of assessifie	nt: German and/or Eng	11511	-			
00-PCM3-101-11101									graduate		
	Courses		Duration	S (2)		Method of grading	Indifferical grade	Modulitevel	graduate		
	Course	3			le taught in: Gern	nan or English					
	Method	d of asso	essment			(approx. 90 minutes) o			-		
					il examination of k (approx. 30 min	one candidate each (ap	prox. 20 minutes) or				
						nt: German and/or Eng	lish				
				credit	able for bonus						
Theoretical Chemis	try (25 E	CTS cre	edits)								
Compulsory Course	s (15 EC	TS cred	its)								
08-TCM2-161-m01	Basics	and App	plications	of Qu	antum Chemistry						
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	S		S (2)	+ Ü (2)						
	Method	d of asso	essment	a) wri	tten examination						
				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)							
				Langu	lage of assessme	nt: German and/or Eng	lish				

an TCMa account	Numerical Methods and Programming												
08-1CM3-161-m01			1		1		1						
	ECTS	5	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	S		S (2) -	+ Ü (2)								
	Method	d of ass	essment		a) written examination (approx. 90 to 180 minutes) or								
						e candidate each (20 to 30 minutes) or							
				c) ora	(approx 30 pages)	ups of up to 3 candidates (approx. 15 minutes per c	andidate) or						
				e) pre	d) log (approx. 20 pages) or elements of the second								
				Langu	lage of assessment:	German and/or English							
08-TCM4-161-m01													
	ECTS	5	Duratio	1	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	S		S (2) -	+ Ü (2)								
	Method	d of ass	essment			oprox. 90 to 180 minutes) or							
						e candidate each (20 to 30 minutes) or	andidata) or						
					oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or) log (approx. 20 pages) or								
					e) presentation (approx. 30 minutes)								
						German and/or English							
Compulsory Electiv	es (10 E	CTS cre	dits)										
08-TCM1-161-m01	Selecte	ed Topic	s in Theo	retical	Chemistry								
	ECTS	5	Duratio	<u> </u>	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	S		S (2) -	S (2) + Ü (2)								
	Method	d of ass	essment	a) wri	a) written examination (approx. 90 to 180 minutes) or								
						e candidate each (20 to 30 minutes) or							
					i examination in gro (approx. 20 pages)	ups of up to 3 candidates (approx. 15 minutes per c	andidate) or						
					sentation (approx. 3								
				Language of assessment: German and/or English									
08-TCAP1-161-m01	1 Theoretical Chemistry - Project course quantum chemistry												
	ECTS	5	Duratio	1	1 semester	Method of grading (not) successfully completed	Modul level	graduate					
	Course	S		P (5)									
	Method	d of ass	essment	presentation (approx. 30 minutes)									
				Language of assessment: German and/or English									
	Additio	nal Info	al Information Additional information on module duration: block taught lab course with approx. 20 working days.										

08-TCAP2-161-m01	Theore	tical Ch	emistry -	Project	t course quantum dy	namics						
	ECTS	5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Courses Method of assessment			P (5)	P (5)							
					presentation (approx. 30 minutes) Language of assessment: German and/or English							
	Additio	nal Info	rmation	Additi	onal information on	module duration: bl	ock taught lab course with app	rox. 20 working	days.			
08-MCM3-152-m01	Drug de	esign										
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			S (2) + Ü (1) Module taught in: German or English							
	Method	d of asse	essment	presentation with discussion (approx. 30 minutes) Language of assessment: German and/or English								
	Participants and allocation of places			20 places. 4 places for students of the Master's degree programme Chemie (Chemistry): Places will be allocated according to the same number of subject semesters; students who have chosen Medizinische Chemie (Medicinal Chemistry) as their focus will be given preferential consideration; among applicants with the same number of subject semesters, places will be allocated by lot.; 6 places for students of the Master's degree programme Biochemie (Biochemistry): Places will be allocated ing to the number of subject semesters; 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 by lot as they become available.								

Additional qualifications (15 ECTS credits) **Subfield Additional qualifications Compulsory Electives Focuses (5 ECTS credits)** In the sub-area "Zusätzliche Kompetenzen aus den Schwerpunkten" ("Additional Skills from the Focus Area"), students may use a module of their choice from the Focus area that they are not using in the area of mandatory electives 1. Molecular Biology laboratory course 08-BC-MOLP-152mo1 Method of grading | numerical grade **ECTS** Modul level 10 Duration 1 semester undergraduate Courses P (5) Method of assessment | a) written examination (approx. 45 to 90 minutes) or b) log (10 to 20 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 to 20 minutes per candidate) or e) presentation (20 to 30 minutes) or f) practical examination (on average approx. 2 hours; time to complete will vary according to subject area but will not exceed a maximum of 4 hours) Language of assessment: German and/or English Assessment offered: Once a year, winter semester Participants and allo-Biochemie (Biochemistry), Bachelor's: 24 places. Selection process Biochemie (Biochemistry), Bachelor's (180 ECTS credits): Should the number of applications exceed the cation of places number of available places, places will be allocated according to the following quotas: Quota 1 (two thirds of places): current average grade of successfully completed modules; among applicants with the same average grade, places will be allocated by lot. Quota 2 (one third 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. Chemie (Chemistry), Master's: 6 places. Selection process Chemie (Chemistry), Bachelor's (120 ECTS credits): Places will be allocated according to the number of subject semesters. 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 by lot as they become available. 08-HKM1-152-m01 Organo- and Biocatalysis

Method of grading | numerical grade

c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate)

b) oral examination of one candidate each (20 to 30 minutes) or

Language of assessment: German and/or English

Master's with	1 maior Ch	emistry (2016)

ECTS

Courses

Duration

S (3)

1 semester

Method of assessment | a) written examination (approx. 45 to 90 minutes) or

Modul level

graduate

08-MCM3-152-m01	Drug de	esign									
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		S (2) + Modu	⊦ Ü (1) le taught in: Germar	n or English	-				
	Method	d of asse	essment		resentation with discussion (approx. 30 minutes) anguage of assessment: German and/or English						
		oants an of place:		the sa will be ted by ding t	places. 4 places for students of the Master's degree programme Chemie (Chemistry): Places will be allocated according to the same number of subject semesters; students who have chosen Medizinische Chemie (Medicinal Chemistry) as their focus will be given preferential consideration; among applicants with the same number of subject semesters, places will be allocated by lot.; 6 places for students of the Master's degree programme Biochemie (Biochemistry): Places will be allocated according to the number of subject semesters, places will be allocated by lot; a waiting list will be maintained and places re-allocated by lot as they become available.						
08-PH-KAC-152-	Clinica	l-analyti	cal Chem	istry							
mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V (3)							
	Method	d of asse			ritten examination (approx. 120 minutes) anguage of assessment: German and/or English						
08-PH-KACP-152-	Practical course of clinical-analytical Chemistry										
mo1	ECTS	5	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate		
	Courses			P (5)							
	Method	d of asse	essment	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-SCM3-152-m01	Bioorga	anic Che	mistry								
	ECTS	5	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		S (3)	•						
	Method	d of asse	essment	b) ora c) ora	owritten examination (approx. 45 to 90 minutes) or oral examination of one candidate each (20 to 30 minutes) or oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) anguage of assessment: German and/or English						
08-SCM1-152-m01	Supran	nolecula	r Chemis	try (Ba	sics)						
	ECTS 5 Duration				1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		S (3)							
	Method of assessment			a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) Language of assessment: German and/or English							

o8-FU-Mo-	Molecular Materials (Lecture)											
MaV-152-mo1	ECTS	5	Duration	ı	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	:S	,	V (3) ·	(3) + S(1)							
	Metho	d of ass	essment	exam (appr	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)] as well as talk (approx. 30 minutes), weighted 3:1 anguage of assessment: German and/or English							
08-FU-NT-152-m01	Chemi	Chemically and bio-inspired Nanotechnology for Material Synthesis										
	ECTS	5	Duration	ı	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	S.		V (4)		·						
				b) ora c) ora d) log e) pre Langu	n) written examination (approx. 90 to 180 minutes) or n) oral examination of one candidate each (20 to 30 minutes) or n) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or n) log (approx. 20 pages) or n) presentation (approx. 30 minutes) n) presentation (approx. 30 minutes) n) anguage of assessment: German and/or English							
o8-FU-Ma-	Materi	Material Science 1 (Basic introduction)										
Wi1-152-m01	ECTS 5 Duratio		า	1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Courses			V (3) ·	+ Ü (1)							
	Metho	d of ass	essment	b) ora c) ora d) log e) pre	Il examination of o I examination in g (approx. 20 pages esentation (approx	approx. 90 to 180 minutes) or ne candidate each (20 to 30 minutes) or roups of up to 3 candidates (approx. 15 minutes ps) or . 30 minutes) ut: German and/or English	per candidate) or					
o8-FU-Ma-	Materi	al Scien	ce 2 (The	Mater	ial Groups)							
Wi2-152-mo1	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	·S		V (3) ·	+ Ü (1)	•						
	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								

03-FU-PM1-152-	Polyme	er Chem	istry 1 (Le	cture	and Practical Cour	se)	'				
mo1	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate			
	Course	S	·	V (2)	+ P (2)		•				
	Method of assessment			prox. Langu Asses	a) assessment and b) 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 creditable for bonus						
08-PCM1a-161-	Laser S	pectros	сору								
mo1	ECTS	5	Duratio	1	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		S (2) Modu	+ Ü (1) ıle taught in: Germ	an or English					
	Method	d of ass	essment	b) ora	n) written examination (approx. 90 minutes) or n) oral examination of one candidate each (approx. 20 minutes) n.anguage of assessment: German and/or English						
08-PCM1b-161-	Advanc	ed Phy	sical Che	nistry	(Lab)						
mo1	ECTS 5 Duratio				1 semester	Method of grading (not) successfully complete	d Modul level	graduate			
	Courses			P (4) Modu	lle taught in: Germ	an or English					
	Method	d of ass	essment	and a	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						
	Additio	nal Info	rmation	Addit	Additional information on module duration: block taught lab course with approx. 20 working days.						
08-PCM2-161-m01	Statist	ical Me	chanics a	nd Reaction Dynamics							
	ECTS	5	Duratio	1	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		S (2) Modu	+ Ü (1) ıle taught in: Germ	an or English					
	Method of assessment			b) ora c) tall	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes) Language of assessment: German and/or English						
08-PCM3-161-m01	Nanoso	ale Ma	terials								
	ECTS	5	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		S (2) Modu	+ Ü (1) ıle taught in: Germ	an or English					
	Method of assessment			b) ora c) tall Langu	al examination of o	(approx. 90 minutes) or one candidate each (approx. 20 minutes) or otes) ot: German and/or English					

08-PCM4-161-m01	Ultrafa	st spect	roscopy a	and qua	antum-control				-		
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	S	•	S (2) + Modu	- + Ü (1) le taught in: German	n or English					
	Method	l of asse	essment	b) ora c) talk Langu	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes) Language of assessment: German and/or English						
		rerequis					3-PCM1b recommended.				
08-PCM5-161-m01		al Chem	 		olecular Assemblies	•					
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	S		S (2) + Modu	+ Ü (1) le taught in: German	n or English					
	Method	l of asse	essment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes) Language of assessment: German and/or English							
08-PCM6-161-m01	Physica	al Chem	istry (Adv	ranced Lab)							
	ECTS	5	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Courses	S		P (4) Modu	le taught in: German	n or English					
	Method	l of asse	essment	presentation (approx. 20 minutes) Language of assessment: German and/or English							
	Additio	nal Info	rmation	Additi	onal information on	module duration: bl	ock taught lab course with app	rox. 20 working	days.		
08-TCM2-161-m01	Basics	and App	plications	of Qua	antum Chemistry						
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			S (2) +							
	Method	l of asse	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 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English							

o8-TCM3-161-mo1	Numerical N	lethods and	Programming								
	ECTS 5	Duration	1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses		S (2) + Ü (2)								
	Method of a	ssessment	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								
			d) log (approx. 20 pages) or e) presentation (approx. 30 minutes)								
			Language of assessm	anguage of assessment: German and/or English							
08-TCM4-161-m01	Quantum Dy	namics		· · ·							
	ECTS 5	Duration	1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses		S (2) + Ü (2)								
	Method of a	ssessment		n (approx. 90 to 180 minutes) or							
				one candidate each (20 to 30 minutes) or	11.1.1						
			d) log (approx. 20 pag	groups of up to 3 candidates (approx. 15 minutes) or	s per candidate) or						
			e) presentation (appro								
				nguage of assessment: German and/or English							
08-TCM1-161-m01	Selected To	pics in Theo	retical Chemistry		'						
	ECTS 5	Duration	1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses	`	S (2) + Ü (2)	·							
	Method of a	ssessment	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 assessm	anguage of assessment: German and/or English							
08-TCAP1-161-m01	Theoretical	Chemistry -	Project course quantu	m chemistry							
	ECTS 5	Duration	1 semester	Method of grading (not) successfully comp	oleted Modul level	graduate					
	Courses		P (5)								
	Method of a	ssessment		presentation (approx. 30 minutes)							
		,		ent: German and/or English							
	Additional Ir			n on module duration: block taught lab course wi	th approx. 20 working	g days.					
08-TCAP2-161-m01			Project course quantu	-							
	ECTS 5	Duration		Method of grading (not) successfully comp	oleted Modul level	graduate					
	Courses		P (5)			_					
	Method of a	ssessment	presentation (approx.								
				ent: German and/or English							
	Additional Ir	ntormation	Additional information	n on module duration: block taught lab course wi	th approx. 20 working	g days.					

08-ACM1-161-m01	Advanc	ed Inor	ganic Che	emistry	7						
	ECTS	10	Duration	n	2 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		S (3) -	+ S (3)		•				
	Method of assessment			b) ora c) ora d) log e) pre	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						
08-ACPM-161-m01	Inorgar	nic Cher	nistry pra	ctical	course for advanced						
	ECTS 10 Duration			n	1 semester	Method of grading (not) successfully completed	Modul level	graduate			
	Course	S		P (24) Modu	le taught in: Germai	n or English					
	Method	l of asso	essment		port on practical course (approx. 20 pages) and talk (approx. 15 minutes) nguage of assessment: German and/or English						
	Additio	nal Info	rmation	Addit	ional information on	module duration: block taught lab course with app	orox. 40 working	g days.			
08-ACM2-161-m01		ganic C	hemistry		-						
	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		S (3) Modu	le taught in: Germar	n or English					
	Method	Method of assessment			a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English						
08-ACM3-161-m01	Solid st	tate che	emistry ar	nd inor	ganic materials						
	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level	graduate			
	Course			S (3)	-			_			
	Method of assessment			b) ora c) ora d) log e) pre	l examination of one l examination in gro (approx. 20 pages) sentation (approx. 3		andidate) or				

08-0CM-SYNT-161-	Modern Syntl	hetic Meth	ods				',-				
mo1	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	·	S (2) - Modu	+ Ü (1) le taught in: Germa	n or English						
	Method of as:	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								
o8-OCM-AKP1-161-	Advanced Res	search Pro	ject Or	ganic Chemistry							
mo1	ECTS 10	Duratio	n	1 semester	Method of grading	(not) successfully completed	d Modul level	graduate			
	Courses		P (20) Modu	le taught in: Germa	n or English						
	Method of as:	sessment			es) and talk (approx. : German and/or Eng						
08-OCM-NAT-161-	Modern Aspects of Natural Product Chemistry and Biological Chemistry										
mo1	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		S (3) Modu	le taught in: Germa	n or English						
	Method of as	sessment	b) ora c) ora	l examination of on l examination in gro	pprox. 45 to 90 minu e candidate each (2coups of up to 3 candio : German and/or Eng	o to 30 minutes) or dates (15 to 30 minutes per ca	andidate)				
	Participants a cation of plac		Amon	g applicants with th		ubject semesters, places will		number of subject semesters. ot. A waiting list will be maintai-			
08-0CM-FM-161-	Organic Funct	tional Mat	erials								
mo1	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		S (3)								
	Method of ass	sessment	b) ora c) ora d) log e) pre	l examination of on l examination in gro (approx. 20 pages) sentation (approx.	or	o to 30 minutes) or dates (approx. 15 minutes per	candidate) or				

o8-BC-	Molecu	lar Biol	ogy for A	dvance	ed Students		,				
MOLMC-161-mo1	ECTS	5	Duration	n .	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		V (2) -	V (2) + Ü (1)						
	Method	d of asso	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 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English							
08-BC-VPMM-161-	Practic	al cours	e "Molec	ular M	achines" for advanc	ed students					
mo1	ECTS	10	Duration	n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		P (10)							
	Method	of ass	essment		og (approx. 20 pages) and talk (approx. 15 minutes) anguage of assessment: German and/or English						
	Modules successfully completed			08-B0	C-MOLP						
	Additio	nal Info	rmation	Addit	ional information or	module duration: block taught lab course with	approx. 40 working	days.			
08-BC-VPPD-161-	Practical course "Protei			n Degr	adation in Eukaryot	es" for advanced students					
mo1	ECTS 10 Duratio				1 semester	Method of grading numerical grade	Modul level	graduate			
	Course			P (10)	P (10)						
	Method	d of asso	essment		Log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English						
	Module comple	es succe ted	essfully	o8-B0	C-MOLP						
	Additio	nal Info	rmation	Addit	ional information or	module duration: block taught lab course with	approx. 40 working	days.			
08-BC-VPRB-161-	Practic	al cours	e "RNA B	iochen	nistry" for advanced	students	'				
mo1	ECTS	10	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		P (10)							
	Method of assessment			Log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English							
	Modules successfully completed			o8-BC-MOLP							
	Additio	nal Info	rmation	Addit	ional information or	module duration: block taught lab course with	ı approx. 40 working	g days.			

08-BC-VPSB-161-	Practica	al cours	e "Struct	ural Bi	ology" for advanced	students						
mo1	ECTS	10	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5		P (10)								
	Method	of asse	essment	Log (approx. 20 pages) and talk (approx. 15 minutes)								
					Language of assessment: German and/or English							
	Module comple		ssfully	o8-BC	8-BC-MOLP							
	Additio	nal Info	rmation	Additi	ditional information on module duration: block taught lab course with approx. 40 working days.							
08-FMM-MP-161-	Lab Cou	ırse Ma	terial Sci	ence		,						
mo1	ECTS	5	Duration	า	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Courses	5		P (8)		•						
	Method	of asse	essment	and a	estate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) assessment of practical performance (2 to 4 random examinations) guage of assessment: German and/or English							
08-FMM-PA-161-	Project	Work										
mo1	ECTS	5	Duration	า	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Courses	5		P (10)				,				
	Method	of asse	essment			d talk (approx. 15 mi German and/or Engl						
03-FU-PM2-161-	Polyme	rs II										
mo1	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5		S (2) -	+ Ü (1)			•				
				b) ora c) talk Langu	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes) Language of assessment: German and/or English							
08-HKM2-161-m01	Advanc	ed orga	nometall	ic cher	nistry and its applic	ation in homogeneo	us catalysis					
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		S (3) Modu									
	Method of assessment			b) ora c) ora d) log e) pre	l examination of one l examination in gro (approx. 20 pages) sentation (approx. 3	or	to 30 minutes) or lates (approx. 15 minutes per c	andidate) or				

08-HKM3AC-161-	Practica	al cours	e "Homo	geneo	us catalysis in Inorga	anic Chemistry"		<u> </u>			
mo1	ECTS	5	Duration	า	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Courses	5		P (6) Modu	P (6) Module taught in: German or English						
				Langu	report on practical course (approx. 10 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English						
o8-HKM3OC-161-	Practica	al cours	e "Homo	geneo	eneous catalysis in Organic Chemistry"						
mo1	ECTS	5	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Courses	5		P (6) Modu	le taught in: German	or English					
	Method	l of asse	essment			(approx. 10 pages) a German and/or Engl	nd talk (approx. 15 minutes) ish				
o8-HKM4-161-mo1	Advanc	ed trans	ition me	tal che	mistry						
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	5		S (3)							
08-MCM1-161-m01	Practica	al cours	e medicir	c) ora d) log e) pre Langu	o) oral examination of one candidate each (20 to 30 minutes) or) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or)) log (approx. 20 pages) or)) presentation (approx. 30 minutes) anguage of assessment: German and/or English						
		10	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Courses	5		P (10) Modu	le taught in: German	or English		•			
	Method	l of asse	ssment	and a	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) as well as report (30 to 50 pages) Language of assessment: German and/or English						
o8-MCM2a-161-	Pharma	ceutica	l/Medicii	nal Ch	emistry 1						
mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			V (3)							
	Method of assessment			b) ora c) ora d) log e) pre	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						

o8-MCM2b-161-	Pharma	aceutica	al/Medicii	nal Che	emistry 2	,						
mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (3)	•							
	Methoc	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 pages) or								
				e) presentation (approx. 30 minutes)								
				Language of assessment: German and/or English								
08-MBC-MSP-161-			metry and	Proteomics								
mo1	ECTS 5 Durati				1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			+ S (1) + P (2)							
					le taught in: Germ	_			_			
	Method	of ass	essment		tten examination ((20 to 30 pages) (approx. 45 to 90 minu	ites) or					
						ne candidate each (20	to 30 minutes) or					
				d) ora	l examination in g	roups of up to 3 candi	dates (15 to 30 minutes per can	ididate) or				
				e) presentation (20 to 40 minutes) Language of assessment: German and/or English								
				Langu	lage of assessmen sment offered: In t	t: German and/or Eng he semester in which	the course is offered, no less tl	han once a vear				
	Particin	ants ar	nd allo-	67 pla		The Semester in Willen	the course is officied; no less th	nan once a year				
	Participants and allo- cation of places			0, p.c								
08-SCM2-161-m01	Supran	nolecula	ar Chemis	try (Pr	actical Course)							
	ECTS	5	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course	S		P (6) Modu	le taught in: Germ	an or English						
	Method	l of ass	essment	and a	ssessment of prac		o 4 random examinations)	15 minutes eacl	h, log approx. 5 to 10 pages each)			
	Module comple		essfully	08-SC	CM1							
08-SCM4-161-m01	Supran	olecula	ar Chemis	try (Ad	lvanced Lab)							
	ECTS	5	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Courses			P (6) Module taught in: German or English								
	Method of assessment			presentation (approx. 20 minutes) Language of assessment: German and/or English								
	Modules successfully completed			08-SCM2								
				Addit	onal information o	on module duration: b	lock taught lab course with app	orox. 20 working	g days.			

Subfield Other add	itional q	ualifica	tions (10	ECTS o	redits)						
08-WRM1-161-m01	Tutorin	g 1 (pra	ctical cou	ırse)							
		5	Duration		1 semester	Method of grading	(not) successfull	y completed	Modul level	graduate	
	Courses			T (3)							
	Method of assessment other prerequisites				Tutoring activities, (preparation of status and/or wrap-up reports, approx. 100 hours total) Language of assessment: German and/or English						
						activities performed in the tutorial held in n			ract for this mo	dule. The tutorial must accompa-	
08-WRM2-161-m01	Tutorin	g 2 (pra	ctical co	urse)							
	ECTS	5	Duration	n	1 semester	Method of grading	(not) successfull	y completed	Modul level	graduate	
	Courses	5	,	T (3)	•	•			•	•	
	Method	l of asse	essment			ration of status and/ German and/or Engl		s, approx. 100	hours total)		
	other p	rerequis	sites		t is not permitted to use activities performed under a research assistant contract for this module. The tutorial must accompany a different course than the tutorial held in module 08-WRM1.						
08-APM1-161-m01	Foreign	Studie	s (short)								
	ECTS	5	Duratio	n	1 semester	Method of grading	(not) successfull	y completed	Modul level	graduate	
	Courses	5		P (o) Modu	P (o) Module taught in: German and/or English and potentially language of the respective country						
	Method	l of asse	essment	a) report (10 to 20 pages) or b) talk (10 to 20 minutes) Language of assessment: German and/or English and potentially language of the respective country							
	other p	rerequis	ites		ot be combined with		•		•		
	Additio	nal Info	rmation	Addit	ional information on	module duration: bl	ock placement ab	road with a d	uration of no le	ss than 20 working days.	
08-APM2-161-m01	Foreign	Studie	s (long)								
	ECTS	10	Duratio	n	1 semester	Method of grading	(not) successfull	y completed	Modul level	graduate	
	Courses			P (o) Modu	le taught in: Germar	n and/or English and	potentially langu	age of the res	pective country		
	Method	l of asse	essment	a) report (15 to 30 pages) or b) talk (15 to 30 minutes) Language of assessment: German and/or English and potentially language of the respective country							
	other p	rerequis	sites	May r	ot be combined with	h o8-APM1.					
	Additio	nal Info	rmation	Addit	ional information on	module duration: bl	ock placement ab	road with a d	uration of no le	ss than 40 working days.	

08-CHPM1-161-	Chemist	try-related com	etences outside of the Natural S	Sciences						
mo1	ECTS	5 Duratio	1 semester Meth	hod of grading (not) successfully completed	Modul level	graduate				
	Courses	i	No courses assigned to module	No courses assigned to module						
			b) oral examination of one cand c) oral examination in groups o d) log (approx. 20 pages) or e) presentation (approx. 30 mir Language of assessment: Germ	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) c.anguage of assessment: German and/or English						
		erequisites	Please consult with course adv	· · · · · · · · · · · · · · · · · · ·	1					
08-CHPM2-161-	Chemist	try-related com	etences within the Natural Scie							
mo1	ECTS	5 Duratio	1 semester Meth	hod of grading (not) successfully completed	Modul level	graduate				
	Courses	i	No courses assigned to module	o courses assigned to module						
	Method	or 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							
	other pr	erequisites	Please consult with course advisory service in advance.							
o8-CHPM3-161-	Chemistry-related competences outside of the Natural Sciences acquired abroad									
mo1	ECTS	5 Duratio	1 semester Metl	hod of grading (not) successfully completed	Modul level	graduate				
	Courses	i	No courses assigned to module Module taught in: German and	e /or English and potentially language of the res	pective country					
			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 and potentially language of the respective country							
	other pr	erequisites	Please consult with course adv	isory service in advance.						

o8-CHPM4-161-	Chemi	stry-rel	ated comp	etenc	tences within the Natural Sciences acquired abroad								
mo1	ECTS	5	Duration	1	1 semester	Method of gr	ading (not) suc	ccessfully completed	Modul level	undergraduate			
	Course	es			ourses assigned to								
					Module taught in: German and/or English and potentially language of the respective country								
	Metho	d of ass	sessment	a) wri	a) written examination (approx. 90 to 180 minutes) or								
				c) ora	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	g (approx. 20 pages	s) or	(
				e) pre	e) presentation (approx. 30 minutes) Language of assessment: German and/or English and potentially language of the respective country								
	othorn	rerequi	icitoc		se consult with cou				the respective	Country			
Thosis (an ECTS or	<u> </u>	nerequi	isites	rieas	e consult with cou	ise advisory serv	nce in advance.						
Thesis (30 ECTS cr		. Th!-	Ch!										
08-MA-161-m01			Chemistr	•	1	100 - 41	- din -	al ava da	Madulland	Laura di cata			
	ECTS	30	Duration		1 semester		ading numerica	ai grade	Modul level	graduate			
	Course				ourses assigned to		<u> </u>			_			
	Metho	ethod of assessment			Master's thesis (approx. 60 to 80 pages) anguage of assessment: German and/or English								
	other r	rerequi	isites)	e applicable, spec			ervisor.	,	_			
	Additional Information				to complete: 6 mo								
vant FSB (subject-	ving area specific	s are de provisio	esigned fo	r stud	ents of Chemistry v	who take part in	an exchange pro	ogramme in accordan	ce with the pro	visions of Annex DA of the rele-			
Subfield Courses a					CTS credits)								
03-TR-152-m01		logy an	d legal stu										
	ECTS	3	Duration		1 semester	Method of gr	ading numerica	al grade	Modul level	undergraduate			
	Course		_		+ V (1)				,				
					en examination (ap	<u> </u>							
	Additio	onal Info	ormation		rding to § 2 para. 2 POLmCh and No. 5				etter g) and i) a	nd No. II 1st letter d) of annex 1 to			
	Referre	ed to in		§ 22 l	II Nr. 1 h) II Nr. 2 f) II Nr. 3 f)								
08-VPM-DA-161-	Advan	ced che	mical prac	tical	ical course								
mo1	ECTS	2	Duration	ı	1 semester	Method of gr	ading (not) suc	ccessfully completed	Modul level	graduate			
	Course	!S	,	P (3)				•	-				
				report (approx. 3 pages) Language of assessment: German and/or English									

Subfield Courses a	t partner	univer	sity abroa	ad (30	ECTS credits)						
08-VPU-161-m01	Qualific	ations	- Partner	Unive	rsity						
	ECTS	30	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Courses	5	•	No co	urses assigned to m	odule	•	•			
	Method	of ass	essment	Asses	sments as specified	by partner universi	ty abroad				
							guage spoken at partner univer	sity abroad			
	other p				e consult with course	e advisory service ir	advance.				
visions) Annex DA),	one foc provisio	us with ons on a	25 ECTS (available	credits	as well as one focus		ts (focuses 1 and 2 pursuant to on 2 Sentence 8 FSB.	Section 3 Subs	ection 2 FSB (subject-specific pro-		
Inorganic Chemistr	y (25 EC	TS cred	its)								
Compulsory Course	es (20 EC	TS cred	lits)								
08-ACM1-161-m01	Advanc	ed Inor	ganic Che	mistry	1						
	ECTS	10	Duration	1	2 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	5		S (3)	+ S (3)						
				c) ora d) log e) pre Langu	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						
08-ACPM-161-m01	Inorgan	ic Cher	mistry pra	ctical	course for advanced		_				
	ECTS	10	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Courses	5		P (24) Modu) Ile taught in: German	n or English					
	Method	l of asso	essment		t on practical course uage of assessment:		and talk (approx. 15 minutes) lish				
	Additio	nal Info	rmation	Addit	ional information on	module duration: b	lock taught lab course with app	orox. 40 working	g days.		
Compulsory Electiv	es (5 EC	TS cred	its)								
08-TCM2-161-m01	Basics	and App	olications	of Qu	antum Chemistry						
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	5		S (2)	+ Ü (2)						
	Method	l of ass	essment	b) ora c) ora d) log e) pre	tten examination (ap al examination of one I examination in grou (approx. 20 pages) (sentation (approx. 3 uage of assessment:	e candidate each (20 ups of up to 3 candi or o minutes)	o to 30 minutes) or dates (approx. 15 minutes per d	candidate) or			

08-ACM2-161-m01	Bioinorganic Chemistry													
	ECTS	5	Duration)	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	S		S (3) Modu	le taught in: Germa	an or English		,						
				b) ora c) ora	n) written examination (approx. 45 to 90 minutes) or o) oral examination of one candidate each (20 to 30 minutes) or oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) anguage of assessment: German and/or English									
08-ACM3-161-m01	Solid s	tate che	emistry ar	d inor	norganic materials									
	ECTS	5	Duration)	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	S	•	S (3)				•						
				b) ora c) ora d) log e) pre Langu	l examination of or l examination in gr (approx. 20 pages sentation (approx. lage of assessmen	30 minutes) t: German and/or Englis	to 30 minutes) or ates (approx. 15 minute	es per candidate) or						
08-HKM2-161-m01	Advanc	ed orga	nometall	ic cher	nistry and its appli	ication in homogeneou	s catalysis							
	ECTS	5	Duration)	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	ırses			S (3) Module taught in: German or English									
	Method	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 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English										
Organic Chemistry	(25 ECT:	S credit	s)											
Compulsory Course	es (15 EC	TS cred	its)											
08-OCM-SYNT-161-	Moderi	n Synth	etic Meth	ods										
mo1	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	S		S (2) - Modu	+ Ü (1) le taught in: Germa		.							
	Method	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 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English										

08-OCM-AKP1-161-	Advanced Res	earch Pro	ject Or	ganic Chemistry								
mo1	ECTS 10	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Courses		P (20) Modu	P (20) Module taught in: German or English								
	Method of ass	essment		Log (approx. 15 to 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English								
Compulsory Electiv	es (10 ECTS cre	dits)										
08-HKM1-152-m01	Organo- and E	Biocatalys	is									
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		S (3)									
	Method of ass		b) ora c) ora Langu	a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) c.anguage of assessment: German and/or English								
08-PH-KACP-152-		se of clini	cal-ana	alytical Chemistry								
m01	ECTS 5 Duratio		n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate				
	Courses		P (5)									
	Method of ass	essment	and a	/ortestate/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-SCM3-152-m01	Bioorganic Ch	emistry										
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	_	S (3)									
	Method of ass	essment	b) ora c) ora	a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English								
08-SCM1-152-m01	Supramolecul	ar Chemis	try (Ba	sics)								
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		S (3)									
	Method of ass	essment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) Language of assessment: German and/or English									

08-TCM2-161-m01	Basics and Applications of Quantum Chemistry												
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	:S		S (2) + Ü (2)			•						
	Method	d of ass	essment	a) written examination (approx. 90 to 180 minutes) or									
				o) 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 (appro	presentation (approx. 30 minutes)								
				Language of assessme	nt: German and/or Engl	ish							
08-OCM-NAT-161-	Modern	n Aspec	ts of Natu	ral Product Chemistry a	and Biological Chemistry	1							
mo1	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	S .		S (3) Module taught in: Gerr	nan or English								
	Method	d of ass	essment	b) oral examination ofc) oral examination in	written examination (approx. 45 to 90 minutes) or oral examination of one candidate each (20 to 30 minutes) or oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) nguage of assessment: German and/or English								
	Participants and allo- cation of places			MA Chemie: unbegrenzt, Ma Biochemie: 20 places. Places will be allocated according to the number of subject semesters. 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 by lot as they become available.									
08-OCM-FM-161-	Organic Functional Materials												
mo1	ECTS 5 Duratio			1 semester	Method of grading	Modul level	graduate						
	Course	:S		S (3)			,						
	Method	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 pages) or									
				e) presentation (appro	x. 30 minutes)								
				Language of assessme	nt: German and/or Engl	ish							
Physical Chemistry	/ (25 ECT	ΓS credi	ts)										
Compulsory Course	es (20 EC	CTS cred	dits)										
08-PCM1a-161-	Laser S	spectros	scopy										
mo1	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses			S (2) + Ü (1) Module taught in: German or English									
				a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) Language of assessment: German and/or English									

o8-PCM1b-161-	Advanc	ed Phy	sical Che	mistry	(Lab)							
mo1	ECTS	5	Duratio	n	1 semester	Method of grading (not) successfully completed	Modul level	graduate				
	Course	1			P (4) Module taught in: German or English							
				and a Langu	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							
	Additio	nal Info	rmation	Additi	onal information on	module duration: block taught lab course with app	rox. 20 working	g days.				
08-PCM2-161-m01	Statisti	ical Me	chanics a	nd Rea	ction Dynamics			-				
	ECTS	5	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		S (2) - Modu	+ Ü (1) le taught in: Germaı	n or English						
	Method	d of ass	essment	b) ora c) talk	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes) .anguage of assessment: German and/or English							
08-PCM6-161-m01	Physica	Physical Chemistry (Advanced Lab)										
	ECTS 5 Duratio			n	1 semester	Method of grading (not) successfully completed	Modul level	graduate				
	Course	S		P (4) Modu	P (4) Module taught in: German or English							
	Method of assessment				presentation (approx. 20 minutes) Language of assessment: German and/or English							
	Additio	nal Info	rmation	Additi	onal information on	module duration: block taught lab course with app	rox. 20 working	days.				
Compulsory Electiv	es (5 EC	TS cred	its)									
o8-FU-Ma-	Materia	al Scien	ce 1 (Basi	c intro	duction)							
Wi1-152-mo1	ECTS	5	Duratio	1	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	S		V (3) +	+ Ü (1)							
	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								

08-PCM3-161-m01	Nanosc	Nanoscale Materials												
	ECTS	5	Duration	1	1 semester	Method of grading nu	merical grade	Modul level	graduate					
	Courses	S		S (2) - Modu	+ Ü (1) le taught in: Germa	n or English								
	Method of assessment			b) ora c) talk Langu	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes) Language of assessment: German and/or English creditable for bonus									
08-PCM4-161-m01	Ultrafa	st spect	roscopy a	and qu	antum-control			,						
	ECTS	5	Duration	1	1 semester	Method of grading nu	merical grade	Modul level	graduate					
	Courses	S		S (2) - Modu	+ Ü (1) le taught in: Germa	n or English								
	Method	l of asse	assessment a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes) Language of assessment: German and/or English											
	other p	rerequis	ites	Prior	completion of modu	ıles 08-PCM1a and 08-PC	CM1b recommended.							
08-PCM5-161-m01	Physica	al Chemi	stry of S	ıpramolecular Assemblies										
	ECTS	5	Duration	1	1 semester	Method of grading nu	merical grade	Modul level	graduate					
	Courses	s 		S (2) - Modu	+ Ü (1) le taught in: Germa	n or English								
	Method	l of asse	essment	a) wri b) ora c) talk Langu										
08-TCM2-161-m01	Basics	and App	lications	of Qu	antum Chemistry			,						
	ECTS	5	Duration	1	1 semester	Method of grading nu	merical grade	Modul level	graduate					
	Courses			S (2) -										
	Method	l of asse	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 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English										

08-TCM3-161-m01	Numer	ical Met	hods and	Progra	amming								
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	!S	•	S (2) -	+ Ü (2)	•	•	•					
	Method	d of asse	essment	a) wri	tten examination (approx. 90 to 180 mir	nutes) or						
						ne candidate each (2							
					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								
08-TCM1-161-m01	Selecte	ed Topic	s in Theo	retical	Chemistry			,					
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		S (2) -	+ Ü (2)		•	•						
	Method	d of asse	essment	b) ora) written examination (approx. 90 to 180 minutes) or) oral examination of one candidate each (20 to 30 minutes) or) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or								
					(approx. 20 pages		dates (approx. 1) illinates per c	canalate) of					
				e) pre	sentation (approx.	. 30 minutes)							
						t: German and/or Eng	glish						
08-TCAP1-161-m01		tical Che	<u>*</u>		 								
	ECTS	5	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Course	-		P (5)									
	Method	d of asse	essment		ntation (approx. 30 lage of assessmen	o minutes) t: German and/or Eng	glish						
	Additio	nal Info	rmation	Additi	Additional information on module duration: block taught lab course with approx. 20 working days.								
08-TCAP2-161-m01	Theore	tical Ch	emistry -	Projec	t course quantum	dynamics							
	ECTS	5	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Course	!S		P (5)	•	·		`					
	Method	d of asse	essment		ntation (approx. 30 lage of assessmen	o minutes) t: German and/or Eng	lish						
	Additio	nal Info	rmation	Additional information on module duration: block taught lab course with approx. 20 working days.									
08-FMM-MP-161-	Lab Co	urse Ma	terial Sci			1							
mo1	ECTS	5	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Courses				ļ	, ,							
	Method	d of asse	essment	P (8) 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									

Biochemistry (25 E	CTS cred	lits)										
Compulsory Course	es (15 EC	TS cred	lits)									
08-BC-MOLP-152-	Molecu	lar Biol	logy labor	atory	course							
mo1	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course			P (5)								
	Method	d of ass	essment	b) log c) ora d) ora e) pre f) pra- maxir Langu	(10 to 20 pages) of a lexamination of or all examination in grands are sentation (20 to 30 ctical examination num of 4 hours) age of assessmen	ne candidate each (20 roups of up to 3 candio o minutes) or	to 30 minutes) or dates (approx. 15 to 20 min hours; time to complete wi	·		l not exceed a		
	Particip cation			Biochemie (Biochemistry), Bachelor's: 24 places. Selection process Biochemie (Biochemistry), Bachelor's (180 ECTS credits): Should the number of applications exceed the number of available places, places will be allocated according to the following quotas: Quota 1 (two thirds of places): current average grade of successfully completed modules; among applicants with the same average grade, places will be allocated by lot. Quota 2 (one third 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. Chemie (Chemistry), Master's: 6 places. Selection process Chemie (Chemistry), Bachelor's (120 ECTS credits): Places will be allocated according to the number of subject semesters. 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 by lot as they become available.								
o8-BC-			logy for A	dvanced Students								
MOLMC-161-mo1	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course			V (2) ·								
	Method	d of ass	essment	b) ora c) ora d) log e) pre	Il examination of o I examination in gr (approx. 20 pages sentation (approx.	s) or	to 30 minutes) or lates (approx. 15 minutes p	per candidate) or				
Compulsory Elective	es (10 E	CTS cre	dits)									
08-HKM1-152-m01	Organo	- and B	iocatalys	is								
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (3)								
	Method	d of ass	essment	b) ora c) ora	l examination of o l examination in gr	approx. 45 to 90 minu ne candidate each (20 oups of up to 3 candic t: German and/or Engl	to 30 minutes) or lates (15 to 30 minutes per	candidate)				
Master's with 1 major Ch	emistry (201	.6)					JMU Würzburg • generated 19-A	Apr-2025 • exam. reg. data r	ecord 88 032 - - H 2016	page 45 / 60		

08-MCM3-152-m01	Drug de	esign						1					
	ECTS	5	Duration	<u> </u>	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S			S (2) + Ü (1) Module taught in: German or English								
	Method of assessment			resentation with discussion (approx. 30 minutes) anguage of assessment: German and/or English									
	Participants and allo- cation of places			the sa will be ted by ding t	20 places. 4 places for students of the Master's degree programme Chemie (Chemistry): Places will be allocated according to the same number of subject semesters; students who have chosen Medizinische Chemie (Medicinal Chemistry) as their focus will be given preferential consideration; among applicants with the same number of subject semesters, places will be allocated by lot.; 6 places for students of the Master's degree programme Biochemie (Biochemistry): Places will be allocating to the number of subject semesters; 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 by lot as they become available.								
08-PH-KAC-152-	Clinical	l-analyti	ical Chem	istry	try								
mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		V (3)									
	Method	l of asse	essment		written examination (approx. 120 minutes) Language of assessment: German and/or English								
08-PH-KACP-152-	Practic	al cours	e of clinic	al-analytical Chemistry									
mo1	ECTS	5	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate				
	Course	S		P (5)									
	Method	l of asse	essment	and a	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-ACM2-161-m01	Bioinor	ganic C	hemistry										
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses Method of assessment			S (3) Module taught in: German or English									
				a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English									

08-OCM-NAT-161-	Modern Aspect	ts of Natu	ıral Pro	duct Chemistry and	Biological Chemistr	y						
mo1	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	•	S (3) Modu	S (3) Module taught in: German or English								
	Method of asse	essment	b) ora	a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English								
	Participants an cation of place		Amor	MA Chemie: unbegrenzt, Ma Biochemie: 20 places. Places will be allocated according to the number of subject semesters. 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 by lot as they become available.								
o8-BC-VPMM-161-	Practical cours	e "Molec	ular M	achines" for advanc	ed students		'					
mo1	ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		P (10)	•			•	•				
	Method of asse	essment		Log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English								
	Modules succe completed	essfully	o8-B0	o8-BC-MOLP								
	Additional Info	rmation	Addit	ional information on	module duration: bl	ock taught lab course w	vith approx. 40 working	days.				
08-BC-VPPD-161-	Practical course "Protein Degradation in Eukaryotes" for advanced students											
mo1	ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		P (10)									
	Method of asse	essment	Log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English									
	Modules succe completed	essfully	o8-BC-MOLP									
	Additional Info	rmation	Addit	ional information on	module duration: bl	ock taught lab course w	vith approx. 40 working	days.				
o8-BC-VPRB-161-	Practical cours	e "RNA B	iocher	nistry" for advanced	students							
mo1	ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		P (10)									
	Method of asse	essment	Log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English									
			o8-BC-MOLP									
	Additional Info	rmation	Additional information on module duration: block taught lab course with approx. 40 working days.									

08-BC-VPSB-161-	Practical course "Structural Biology" for advanced students												
mo1	ECTS	10	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	S		P (10)									
	Method	d of ass	essment			nd talk (approx. 15 minutes) : German and/or English							
	Module comple		essfully	08-B0	p8-BC-MOLP								
	Additio	nal Info	rmation	Addit	Additional information on module duration: block taught lab course with approx. 40 working days.								
Functional Materia	ls (25 EC	TS cred	lits)										
Compulsory Course	es (20 EC	TS cred	dits)										
o8-FU-Ma-	Materia	al Scien	ce 1 (Basi	c intro	duction)								
Wi1-152-m01		5	Duration		1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Course	S		V (3) -	+ Ü (1)	<u> </u>	•	,					
	Method	d of ass	essment	b) ora c) ora d) log e) pre	written examination (approx. 90 to 180 minutes) or) oral examination of one candidate each (20 to 30 minutes) or) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or) log (approx. 20 pages) or) presentation (approx. 30 minutes) anguage of assessment: German and/or English								
08-OCM-FM-161-	Organi	rganic Functional Materials											
mo1		5	Duration		1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	S		S (3)		·	•						
	Method	d of ass	essment	b) ora c) ora d) log e) pre	l examination of on l examination in gro (approx. 20 pages) sentation (approx. 3	pprox. 90 to 180 minutes) or e candidate each (20 to 30 minutes) or oups of up to 3 candidates (approx. 15 minutes per or 30 minutes) : German and/or English	r candidate) or						
08-FMM-MP-161-	Lab Cou	urse Ma	terial Sci				,						
mo1	ECTS	5	Duration	1	1 semester	Method of grading (not) successfully complete	d Modul level	graduate					
	Course	S		P (8)			•						
	Method	d of ass	essment										
08-FMM-PA-161-	Project	Work											
mo1	ECTS	5	Duration	1	1 semester	Method of grading (not) successfully complete	d Modul level	graduate					
	Course			P (10)									
	Method	d of ass	essment			nd talk (approx. 15 minutes) : German and/or English							
Master's with 1 major Ch	emistry (201	.6)				JMU Würzburg • generated 19-Apr	-2025 • exam. reg. data ı	record 88 032 - - H 2016 page 48 / 60					

Compulsory Elective	es (5 EC	TS cred	lits)									
08-SCM1-152-m01	Supran	nolecul	ar Chemis	try (Ba	asics)							
	ECTS	5	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S	,	S (3)								
	Method	d of ass	essment	a) wri	tten examination	(approx. 90 minutes) c	r					
						one candidate each (ap nt: German and/or Eng						
o8-FU-Mo-	Molocu	lar Mai	terials (Le		age of assessifier	Tit: German and/or Eng	11511					
MaV-152-mo1	$\overline{}$	5	Duration		1 semester	Method of grading	numorical grado	Modul level	undergraduate			
	Course		Duration			Method of grading	Indinencal grade	Modulitevel	undergraduate			
			accment		V (3) + S (1) [a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) or continuous contractions.							
	Method	ı 01 ü33	Coomen	exam	ination in groups	of up to 3 candidates (approx. 15 minutes per	candidate) or d) log (ap	prox. 20 pages) or e	presentation		
		examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentati (approx. 30 minutes)] as well as talk (approx. 30 minutes), weighted 3:1										
. 50.00						nt: German and/or Eng	lish		,			
08-FU-NT-152-m01					1	r Material Synthesis	· , ,		1			
		5	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course			V (4)		·						
	Method	of ass	essment			(approx. 90 to 180 min						
					oral examination of one candidate each (20 to 30 minutes) or oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or							
				d) log	l) log (approx. 20 pages) or							
				e) pre	e) presentation (approx. 30 minutes) Language of assessment: German and/or English							
o8-FU-Ma-	Matoria	l Scion	so a (The		ial Groups)	it: German and/or Eng	11511	'	'			
Wi2-152-mo1		5	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course		Duration		+ Ü (1)	Method of grading	Hulliencal grade	Modulitevel	undergraduate			
			essment			(approx. 90 to 180 min	utas) or	,	_			
	Method	ı 01 ass	essillelli			one candidate each (20						
				c) ora	l examination in g	roups of up to 3 candi	dates (approx. 15 minut	tes per candidate) or				
					g (approx. 20 page							
				e) pre	esentation (approx	a. 30 minutes) nt: German and/or Eng	lish					
03-FU-PM1-152-	Polyme	r Chem	istry 1 (Le		and Practical Cou			,	'			
mo1		5	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course		2 4. 4	V (2) + P (2)								
	Method	of ass	essment			ortestate/Nachtestate	(pre and post-experime	ent examination talks a	pprox. 15 minutes ea	ch, log ap-		
				prox.	5 to 10 pages eac	h) and assessment of p	ractical assignments (2	2 to 4 random examinat		, 6		
						nt: German and/or Eng						
					ssment offered: Or table for bonus	nce a year, winter seme	ester					
Master's with 1 major Ch	omistry (224	6)		crear	- Dollas		IMII Würzburg • gonorato	d 19-Apr-2025 • exam. reg. data r	esord 99loaal I IIIaaac	page 49 / 60		
master s with I major th	cinibuy (201	.0)					Jivio wuizbuig - generale	u 19 hpi-2025 - exaiii. ieg. udla ii	ccora 00 032 - - 11 2010	μαξε 49 / 00		

08-PCM3-161-m01	Nanos	cale Ma	terials					-	-					
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	S		S (2) Modu	+ Ü (1) Ile taught in: Germa	n or English								
	Method	d of ass	essment	b) ora c) tall Langu	al examination of on k (approx. 30 minut	pprox. 90 minutes) o ne candidate each (ap es) : German and/or Engl	prox. 20 minutes) or							
08-TCM2-161-m01	Basics	and Ap	plications	of Qu	of Quantum Chemistry									
	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	:S		S (2)	+ Ü (2)									
	method	u or ass	essment	b) ora c) ora d) log e) pre	tten examination (a al examination of on l examination in gro (approx. 20 pages) esentation (approx. Jage of assessment									
08-ACM3-161-m01	Solid s	id state chemistry and inorganic materials												
	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	:S		S (3)				·						
	Method	d of ass	essment	b) ora c) ora d) log e) pre	al examination of on l examination in gro g (approx. 20 pages) esentation (approx.	or or	to 30 minutes) or lates (approx. 15 minu	utes per candidate) or						
03-FU-PM2-161-	Polyme	ners II												
mo1	ECTS 5 Duratio			1	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	!S		S (2)	+ Ü (1)									
	Method	d of ass	essment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes) Language of assessment: German and/or English										

Homogeneous Cata	ogeneous Catalysis (25 ECTS credits)											
Compulsory Course	es (20 EC	CTS cred	lits)									
08-HKM1-152-m01	Organo	o- and B	iocatalys	is								
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course			S (3)								
				b) ora c) ora) written examination (approx. 45 to 90 minutes) or) oral examination of one candidate each (20 to 30 minutes) or) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) anguage of assessment: German and/or English							
o8-HKM2-161-mo1	Advanc	Advanced organometallic chemistry and its application in homogeneous catalysis										
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (3) Modu	le taught in: German	or English						
				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								
o8-HKM3AC-161-	Practic	al cours	e "Homo	geneou	ıs catalysis in Inorga	anic Chemistry"						
m01	ECTS	5	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course	S			le taught in: German							
				Langu	age of assessment:	German and/or Engl	and talk (approx. 15 minutes) ish					
o8-HKM3OC-161-	Practic	al cours	e "Homo	geneou	ıs catalysis in Organ							
mo1	ECTS 5 Duration 1 semester Method of grading (not) successfully completed Modul level graduate											
	Courses P (6) Module taught in: German or English											
	Method	d of asse	essment		on practical course age of assessment:		and talk (approx. 15 minutes) ish					

Compulsory Electiv	es (5 EC	TS cred	its)								
03-FU-PM1-152-	Polyme	r Chem	istry 1 (Le	cture	and Practical Cours	e)					
mo1	ECTS	5	Duratio	n	1 semester	Method of grading nu	merical grade	Modul level	undergraduate		
	Course	S		V (2)	+ P (2)			•	•		
				prox. Langu Asses credit	5 to 10 pages each lage of assessmen sment offered: One able for bonus		tical assignments (2 to 4 ra		pprox. 15 minutes each, log ap- ions)		
08-PCM2-161-m01	Statist	ical Med	chanics a	nd Rea	ction Dynamics						
	ECTS	5	Duratio	n	1 semester	Method of grading nu	merical grade	Modul level	graduate		
	Course	Ses $S(2) + \ddot{U}(1)$ Module taught in: German or English									
	Method	d of ass	essment	b) ora c) tall	ritten examination (approx. 90 minutes) or ral examination of one candidate each (approx. 20 minutes) or ılk (approx. 30 minutes) guage of assessment: German and/or English						
08-TCM2-161-m01	Basics	and Ap	plications	of Qu	antum Chemistry						
	ECTS 5 Duration			n	1 semester	Method of grading nu	merical grade	Modul level	graduate		
	Course	S	•	S (2)	+ Ü (2)						
	Method	d of ass	essment	b) ora c) ora d) log e) pre	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) c.anguage of assessment: German and/or English						
08-0CM-SYNT-161-	Moderi	Synth	etic Meth	ods	`			,			
mo1	ECTS	5	Duratio	n	1 semester	Method of grading nu	merical grade	Modul level	graduate		
	Course	S		$S(2) + \ddot{U}(1)$ Module taught in: German or English							
	Method	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 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English							

08-HKM4-161-m01	Advanc	ed tran	sition me	tal che					-		
00 111(1114-101-11101	ECTS	5	Duration		1 semester	Method of grading nume	rical grade	Modul level	graduate		
	Course		Daration	S (3)	Tacinester	Method of Stading Indine	ileut gruuc	Modulitevel	graduate		
			essment		tten examination (approx. 90 to 180 minutes) o	 r		-		
	Method	a 01 u55	, cooment			ne candidate each (20 to 30 i					
						oups of up to 3 candidates (a	approx. 15 minutes per c	candidate) or			
					g (approx. 20 pages esentation (approx.						
				Langi	lage of assessmen	t: German and/or English					
Medicinal Chemist	ry (25 EC	CTS cre	dits)			· <u> </u>					
Compulsory Course	es (10 EC	TS cred	dits)								
08-MCM1-161-m01	Practic	al cour	se medici	nal che	emistry						
	ECTS	10	Duratio	n	1 semester	Method of grading (not)	successfully completed	Modul level	graduate		
	Course	S	·	P (10) Modu	ile taught in: Germa	an or English					
	Method	d of ass	sessment	and a	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) as well as report (30 to 50 pages) Language of assessment: German and/or English						
Compulsory Electiv	es (15 E	CTS cre	dits)								
08-MCM3-152-m01	Drug d	esign									
	ECTS	5	Duratio	n	1 semester	Method of grading nume	rical grade	Modul level	graduate		
	Course	S			+ Ü (1) ıle taught in: Germa	an or English					
	Method	d of ass	essment			ssion (approx. 30 minutes) t: German and/or English					
	Particip cation		nd allo- es	the sa will b ted b ding t	ame number of sub e given preferentia y lot.; 6 places for s to the number of su	ject semesters; students who I consideration; among appli students of the Master's degr	o have chosen Medizini cants with the same nu ee programme Biochem licants with the same n	sche Chemie (M mber of subject nie (Biochemistr umber of subjec	ces will be allocated according to ledicinal Chemistry) as their focus semesters, places will be allocay): Places will be allocated accorts semesters, places will be allocated ailable.		
08-PH-KAC-152-	Clinica	l-analy	tical Chen	nistry							
mo1	ECTS	5	Duratio	n	1 semester	Method of grading nume	rical grade	Modul level	graduate		
	Course	S		V (3)							
	Method	d of ass	sessment		en examination (ap uage of assessmen	prox. 120 minutes) t: German and/or English					

08-PH-KACP-152-	Practic	al cours	se of clinic	cal-ana	alytical Chemistry			-				
mo1	ECTS	5	Duration	า	1 semester	Method of grading (not) successfully completed	Modul level	undergraduate				
	Course	S		P (5)	•							
	Method	d of ass	essment	and a	rtestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) d assessment of practical performance (2 to 4 random examinations) nguage of assessment: German and/or English							
08-ACM2-161-m01	Bioinor	rganic C	hemistry									
	ECTS	5	Duration	1	1 semester	graduate						
	Course	S		S (3) Modu	G (3) Module taught in: German or English							
	Method	l of ass	essment	b) ora c) ora	vritten examination (approx. 45 to 90 minutes) or							
08-0CM-SYNT-161-	Moderi	n Synth	etic Meth	ods								
mo1	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses				+ Ü (1) ıle taught in: Germa	an or English		-				
	Method	d of ass	essment	b) ora c) ora d) log e) pre	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							
o8-OCM-NAT-161-	Moderi	n Aspec	ts of Natu	ral Pro	oduct Chemistry an	d Biological Chemistry						
mo1	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		S (3) Modu								
	Method	d of ass	essment	b) ora c) ora	a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English							
	Participants and allo- cation of places			MA Chemie: unbegrenzt, Ma Biochemie: 20 places. Places will be allocated according to the number of subject semesters. 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 by lot as they become available.								

o8-BC-	Molecu	lar Biol	ogy for A	dvance	d Students			-				
MOLMC-161-mo1	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S	•	V (2) -	+ Ü (1)	•	•	·				
	Method	of asse	essment			approx. 90 to 180 min						
						ne candidate each (20						
					l examination in gr (approx. 20 pages		dates (approx. 15 minute	es per candidate) or				
					sentation (approx.							
						t: German and/or Eng	lish					
08-BC-VPSB-161-	Practic	al cours	e "Struct	ural Bi	al Biology" for advanced students							
mo1	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	<u> </u>		P (10)								
	Method	of asse	essment									
					nguage of assessment: German and/or English							
	Module comple	es succe eted	essfully	o8-B0	C-MOLP							
	Additio	nal Info	rmation	Addit	ional information o	n module duration: b	lock taught lab course w	vith approx. 40 working	g days.			
08-MCM2a-161-												
mo1	ECTS 5 Duration		Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	s		V (3)								
	Method	d of asse	essment			approx. 90 to 180 min						
						ne candidate each (20	o to 30 minutes) or dates (approx. 15 minute	oc nor candidato) or				
					(approx. 20 pages		aates (approx. 15 illillute	es per carididate) or				
				e) pre	sentation (approx.	30 minutes)						
						t: German and/or Eng	lish					
08-MCM2b-161-		ceutica	l/Medici		emistry 2							
mo1	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course			V (3)								
	Method	d of asse	essment	a) written examination (approx. 90 to 180 minutes) or								
						ne candidate each (20	o to 30 minutes) or dates (approx. 15 minute	os nor candidato) or				
					(approx. 20 pages		iales (approx. 15 minule	es per candidate) of				
					sentation (approx.							
						t: German and/or Eng	lish					

o8-MBC-MSP-161-	Mass-Spectrometry and Proteomics												
mo1		5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	S	-		+ S (1) + P (2) lle taught in: Germa	n or English	<u>-</u>						
	Method	d of ass	essment	b) log c) ora d) ora e) pre Langu	a) written examination (approx. 45 to 90 minutes) or b) log (20 to 30 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) or e) presentation (20 to 40 minutes) Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered, no less than once a year								
	Particip cation o			67 pla	7 places.								
Supramolecular Ch	emistry	(25 ECT	S credits)									
Compulsory Course	es (10 EC	TS cred	lits)										
08-SCM1-152-m01	Supram	nolecula	olecular Chemistry (Basics)										
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	S		S (3)									
	Method	d of ass	essment	b) ora) written examination (approx. 90 minutes) or) oral examination of one candidate each (approx. 20 minutes) anguage of assessment: German and/or English								
08-SCM2-161-m01	Supram	nolecula	cular Chemistry (Practical Course)										
	ECTS	5	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Courses	S		P (6) Modu	le taught in: Germa	ın or English							
	Method	d of ass	essment	and a	ssessment of pract		4 random examinations)	15 minutes eac	h, log approx. 5 to 10 pages each)				
	Module comple		essfully	o8-S0	CM1								
Compulsory Electiv	es (15 EC	CTS cre	dits)										
08-SCM3-152-m01		anic Ch	emistry										
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			S (3)									
	Method	d of ass	essment	b) ora c) ora	ll examination of or l examination in gr	approx. 45 to 90 minut ne candidate each (20 oups of up to 3 candid :: German and/or Engli	to 30 minutes) or ates (15 to 30 minutes per cand	didate)					

08-PCM3-161-m01	Nanos	Nanoscale Materials												
_	ECTS	5	Duration	1 1	semester	Method of grading numerical grade	Modul level	graduate						
	Course	S		S (2) + Ü Module	j (1) taught in: Germa	n or English	•							
	Method	d of asse	essment	b) oral e c) talk (a Languag	written examination (approx. 90 minutes) or oral examination of one candidate each (approx. 20 minutes) or talk (approx. 30 minutes) nguage of assessment: German and/or English editable for bonus									
08-PCM5-161-m01	Physic	al Chem	istry of S	upramol	pramolecular Assemblies									
	ECTS	5	Duration	8 8 8				graduate						
	Course	S		S (2) + Ü (1) Module taught in: German or English										
	Method	d of asse	essment	b) oral e c) talk (a	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes) Language of assessment: German and/or English									
08-ACM2-161-m01	Bioino	rganic C	hemistry				,							
	ECTS	5	Duration					graduate						
	Course	S		S (3) Module	taught in: Germa	n or English	,							
	Method	d of asse	essment	a) writte b) oral e c) oral e Languas										
08-TCM2-161-m01	Basics	and Ap	plications	of Quan	tum Chemistry		,							
	ECTS	5	Duration	າ 1	semester	Method of grading numerical grade	Modul level	graduate						
	Course	Courses S (2) + Ü (2)												
	Method	d of asse	essment	a) writte b) oral e c) oral e d) log (a e) prese Languag										

08-0CM-FM-161-	Organi	c Functi	Functional Materials										
mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		S (3)	-			,	-				
	Method	d of ass	essment			(approx. 90 to 180 mir							
						one candidate each (2							
					i examination in g ; (approx. 20 page		dates (approx. 15 minutes per c	candidate) or					
					sentation (approx								
						nt: German and/or Eng	glish						
o8-SCM4-161-mo1	Supran	nolecul	ar Chemis	try (Ac									
	ECTS	5	Duration	า	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Course	S		P (6)									
					le taught in: Germ								
	Method	d of ass	essment		ntation (approx. 2								
	AAll.		C. II.	_		nt: German and/or Eng	gusn						
	comple	es succe eted	esstully	o8-S0	-IVI 2								
	Additio	nal Info	rmation	Addit	ional information	on module duration: b	olock taught lab course with app	orox. 20 working	g days.				
Theoretical Chemis	try (25 l	ECTS cro	edits)										
Compulsory Course	es (15 EC	TS cred	lits)										
08-TCM2-161-m01	Basics	and Ap	d Applications of Quantum Chemistry										
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		S (2) ·	+ Ü (2)								
	Method	d of ass	essment			(approx. 90 to 180 mir							
						one candidate each (2							
					l examination in g ; (approx. 20 page		dates (approx. 15 minutes per c	candidate) or					
					sentation (approx								
				Langu	lage of assessmer	nt: German and/or Eng	glish						
o8-TCM3-161-mo1	Numer	ical Met	thods and	Progr	amming			'					
	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S	S (2) + Ü (2)						-				
	Method	d of ass	essment	nent 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									
					sentation (approx								
						nt: German and/or Eng	glish						

08-TCM4-161-m01	Quant	um Dyna	mics								
	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	es		S (2) -	+ Ü (2)						
	Metho	d of ass	essment			oprox. 90 to 180 mini					
						e candidate each (20	to 30 minutes) or lates (approx. 15 minutes per c	andidata) or			
					(approx. 20 pages)		lates (approx. 15 illilates per c	andidate) of			
					sentation (approx. 3						
				Langu	lage of assessment:	German and/or Engl	ish				
Compulsory Electiv			dits)								
08-MCM3-152-m01			ī		1	1					
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S (2) + \ddot{U} (1) Module taught in: German or English									
	Metho	d of ass	essment	presentation with discussion (approx. 30 minutes) Language of assessment: German and/or English							
	cation	pants ar of place	es.	the sa will be ted by ding t ted by	ame number of subject	ect semesters; studer consideration; among udents of the Master oject semesters; amo	nts who have chosen Medizini g applicants with the same nui 's degree programme Biochem	sche Chemie (N mber of subject iie (Biochemistr umber of subjec	ces will be allocated according to Medicinal Chemistry) as their focus semesters, places will be allocaty): Places will be allocated accorts semesters, places will be allocatallable.		
08-TCM1-161-m01		<u>-</u>			Chemistry						
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course				+ Ü (2)						
	Metho	od of ass	essment	b) ora c) ora d) log e) pre	l examination of one l examination in gro (approx. 20 pages) sentation (approx. 3	or	to 30 minutes) or lates (approx. 15 minutes per c	andidate) or			
08-TCAP1-161-m01		etical Ch	emistry -	Projec	t course quantum cl	<u> </u>					
	ECTS	5	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Course			P (5)							
	Metho	d of ass	sessment presentation (approx. 30 minutes) Language of assessment: German and/or English								
	Additi	onal Info	rmation	Addit	ional information on	module duration: bl	ock taught lab course with app	rox. 20 working	g days.		

08-TCAP2-161-m01	Theoretical Chemistry - Project course quantum dynamics												
	ECTS	5	Duratio	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Course	S		P (5)									
					ntation (approx. 30 r age of assessment:	ninutes) German and/or Engl	ish						
	Additio	nal Info	al Information Additional information on module duration: block taught lab course with approx. 20 working days.										
Thesis (30 ECTS cre	edits)												
08-MA-161-m01	Master	-Thesis	Chemistı	y									
	ECTS	30	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		No co	No courses assigned to module								
	Method	d of asse	essment	Maste Langu	Master's thesis (approx. 6o to 8o pages) Language of assessment: German and/or English								
	other p	rerequis	sites	Where applicable, specific modules as specified by supervisor.									
	Additional Information Time to complete: 6 months.												