

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: 2018

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)):

07-Mar-2018 (2018-12)

17-Mar-2021 (2021-23)

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 sp	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	ible						
	Other prereq	uisites	if applica	if applicable						
	Participants on of places		ocati- if applica	if applicable						
	Additional information		on if applica	if applicable						
	Referred to i	n LPO I	if applica	ble (examination re	gulations for teachin	g-degree programmes)				

Compulsory	/ Elective	s Focuse:	s (75 ECTS	credits)

Students must take three focuses (focuses 1 through 3 pursuant to Section 3 Subsection 2 Sentence 2 FSB (subject-specific provisions)) worth 25 ECTS credits each; provisions on available combinations are set out in Section 3 Subsection 2 Sentence 8 FSB.

Inorganic Chemistry (25 ECTS credits)

Compul	sory Course	es (20 EC)	ΓS credits)
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08-ACM1-161-m01	Advanced Inorganic Chemistry											
	ECTS	10	Duration	1	2 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	:S	•	S (3) +	- S (3)							
	Method	d of asso	essment	exami (appro	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) anguage of assessment: German and/or English							
08-ACPM-161-m01	Inorga	Inorganic Chemistry practical course for advanced										
	ECTS	10	Duration	ı	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Courses			P (24) Modu	le taught in: Germa	n or English			•			
	Method	d of asso	essment		eport on practical course (approx. 20 pages) and talk (approx. 15 minutes) anguage of assessment: German and/or English							
	Additio	nal Info	rmation	Additi	onal information or	module duration: bl	ock taught lab course with app	rox. 40 working	days.			
Compulsory Electiv	es (5 EC	TS cred	its)									
08-ACM2-161-m01	Bioino	rganic C	hemistry									
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (3) Modu	le taught in: Germa	n or English		-				
	Method	d of ass	essment	exami	nation in groups of		5 to 30 minutes per candidate)		ach (20 to 30 minutes) or c) oral			
08-ACM3-161-m01	Solid s	tate che	emistry ar	nd inor	ganic materials			-				
	ECTS	5	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	:S		S (3)				•				
	Method of assessment			exami (appro	nation in groups of ox. 30 minutes)		pprox. 15 minutes per candida		each (20 to 30 minutes) or c) oral prox. 20 pages) or e) presentation			

08-ACMS-211-m01	Specia	l Topics	in Inorga	nic Ch	emistry						
	ECTS	5	Duration	1	1 semester	Method of grading n	umerical grade	Modul level	graduate		
	Course	·S		S (2) ·	+ Ü (1)	<u> </u>					
	Method	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) presentatio (approx. 30 minutes) Language of assessment: German and/or English						
08-HKM2-161-m01	Advanc	ed orga	nometall	ic che	nistry and its appl	ication in homogeneous	catalysis				
	ECTS 5 Duratio			1	1 semester	Method of grading In	umerical grade	Modul level	graduate		
	Course	·S		S (3) Modu	le taught in: Germa	an or English					
	Method	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) Language of assessment: German and/or English						
Organic Chemistry	(25 ECT	S credit	s)								
Compulsory Course	es (15 EC	TS cred	its)								
08-0CM-SYNT-161-	Moderi	n Synth	etic Meth	ods							
mo1	ECTS	5	Duration	1	1 semester	Method of grading n	umerical grade	Modul level	graduate		
	Courses			S (2) + Ü (1) Module 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							
08-0CM-AKP1-161-	Advanc	ed Res	earch Pro	ject Or	ganic Chemistry						
mo1	ECTS	10	Duratio	n	1 semester	Method of grading (not) successfully completed	Modul level	graduate		
	Course	S		P (20) Modu	le taught in: Germa	an or English					
	Method of assessment			Log (approx. 15 to 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English							

Compulsory Electiv	es (10 ECT	S credits)								
08-OCM-NAT-172-	Modern A	spects of	Natural P	roduct Chemistry an	d Biological Chemistr	у				
mo1	ECTS 5	Dur	ation	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	'	S /Mo	Module taught in: German or English						
	Method o	f assessm	exai	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						
	Participar cation of	nts and all places	ces.	Places will be alloca	ted according to the r	number of subject sem	esters; among applican	Biochemie (Biochemistry): 20 plats with the same number of sub-allocated as they become availa-		
08-OCM-FM-161-	Organic F	unctional	Materials	•						
mo1	ECTS 5	Dur	ation	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		S (3				·			
		f assessm	exai (app Lang	mination in groups of prox. 30 minutes) guage of assessment		approx. 15 minutes per		each (20 to 30 minutes) or c) oral oprox. 20 pages) or e) presentation		
08-0CMS-211-m01	Special Topics in Organic Chemistry									
	ECTS 5	Dur	ation	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		•) + Ü (1)			4			
	Method o	f assessm	exai (app	mination in groups of prox. 30 minutes)		approx. 15 minutes per		each (20 to 30 minutes) or c) oral oprox. 20 pages) or e) presentation		
08-HKM1-152-m01	Organo- a	and Biocat	alysis							
	ECTS 5	Dur	ation	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		S (3)						
			exai	mination in groups of		15 to 30 minutes per ca		ach (20 to 30 minutes) or c) oral		
08-SCM1-152-m01	Supramol	lecular Ch	emistry (I	Basics)			'			
	ECTS 5	Dur	ation	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	·	S (3)			•			
	Method o	f assessm			pprox. 90 minutes) o : German and/or Eng		of one candidate each (a	pprox. 20 minutes)		

08-SCM3-152-m01	Bioorg	anic Ch	emistry			1					
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	·S		S (3)	•						
	Metho	d of ass	essment						ach (20 to 30 minutes) or c) oral		
							15 to 30 minutes per candidate))			
- O TCM (D:				Language of assessment: German and/or English of Quantum Chemistry						
08-TCM2-161-m01						Tag of the		I.a	T		
	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course				+ Ü (2)			1.1.			
	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) Language of assessment: German and/or English						
Physical Chemistry											
Compulsory Course											
08-PCM1a-161-	Laser Spectroscopy										
mo1	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S			+ Ü (1) lle taught in: Germa	n or English					
	Metho	d of ass	essment			pprox. 90 minutes) o : German and/or Eng	r b) oral examination of one callish	ndidate each (a	pprox. 20 minutes)		
08-PCM1b-161-	Advanced Physical Chemistry (Lab)										
mo1	ECTS	5	Duratio	า	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Course	S	,	P (4) Modu	lle taught in: Germa	n or English					
	Metho	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	ormation	Addit	ional information or	n module duration: b	lock taught lab course with app	rox. 20 working	g days.		
Compulsory Electiv	es (15 E	CTS cre	dits)								
08-PCM2-161-m01	Statist	ical Me	chanics a	nd Rea	ction Dynamics						
	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S			+ Ü (1) ıle taught in: Germa	n or English					
	Metho	d of ass	essment	a) wri prox.	tten examination (a 30 minutes)			ndidate each (a	pprox. 20 minutes) or c) talk (ap-		

08-PCM3-161-m01	Nanoso	cale Mat	terials									
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (2) · Modu	+ Ü (1) lle taught in: Germa	an or English						
	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 creditable for bonus								
08-PCM4-161-m01	Ultrafast spectroscopy and quantum-control											
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (2) · Modu	+ Ü (1) lle taught in: Germa	an or English						
	Method	d of asso	essment	prox.	30 minutes)	approx. 90 minutes) or t: German and/or Englis		ndidate each (a	pprox. 20 minutes) or c) talk (ap-			
	other p	other prerequisites Prior completion of modules o8-PCM1a and o8-PCM1b recommended.										
08-PCM5-161-m01	Physical Chemistry of Supramolecular Assemblies											
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			+ Ü (1) lle taught in: Germa	an or English						
	Method of 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								
08-PCM6-161-m01	Physical Chemistry (Advanced Lab)											
	ECTS	5	Duration	1	1 semester	Method of grading	not) successfully completed	Modul level	graduate			
	Course	S		P (4) Module taught in: German or English								
	Method	d of asso	essment	presentation (approx. 20 minutes) Language of assessment: German and/or English								
	Additio	nal Info	rmation	Addit	ional information o	on module duration: blo	ck taught lab course with app	rox. 20 working	g days.			
08-PCMS-211-m01	Specia	l Topics	in Physic	al Che	mistry							
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (2) -	+ Ü (1)			•	•			
	Method	d of asso	essment	exam (appr	ination in groups o ox. 30 minutes)		prox. 15 minutes per candida		each (20 to 30 minutes) or c) oral oprox. 20 pages) or e) presentation			

08-TCM2-161-m01	Basics	and Ap	plications	of Qu	antum Chemistry			-			
	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S	•	S (2) -	S (2) + Ü (2)						
				exam (appr	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) anguage of assessment: German and/or English						
08-TCM4-161-m01	Quantu	m Dyna	mics		,			'			
	ECTS 5 Duration			<u> </u>	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		S (2) -	+ Ü (2)	(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						
Biochemistry (25 E	CTS cred	lits)									
Compulsory Course	es (15 EC	TS cred	its)								
08-BC-	Molecu	lar Biol	ogy for A	dvance	d Students						
MOLMC-161-mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V (2) -	+ 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-BC-MOLP-172-	Molecular Biology laboratory course											
mo1	ECTS 1	.0	Duration	n .	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			P (5)								
	Method o	of asse	ssment	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) Assessment offered: Once a year, winter semester Language of assessment: German and/or English								
	Participa cation of			numb Quota avera applic maint Chem gree p ber of waitir ter prome M with t	er of applications ex a 1 (two thirds of places will ge grade, places will cant; among applica ained and places re ie (Chemistry), Mass programme Chemie of subject semesters. Ing list will be mainta ocedure 1 is finished INT-Lehramt PLUS as	sceed the number of ces): current average I be allocated by lot. Into with the same nurallocated as they be cer's and MINT-Lehrar (Chemistry) (120 ECT) Among applicants wined and places real completely, theses is follows: Places will subject semesters, p	available places, places grade of successfully co Quota 2 (one third of pla mber of subject semeste come available. In PLUS Master's: 6 places credits) will be conside ith the same number of stillocated by lot as they be places will be distributed be allocated according to	will be allocated accompleted modules; am aces): number of subjeers, places will be allocated first: Places will be subject semesters, placecome available. 2. In a d among the students to the number of subject subj	s (180 ECTS credits): Should the rding to the following quotas: long applicants with the same ct semesters of the respective cated by lot. A waiting list will be allocated according to the numces will be allocated by lot. A case that there are places left afin the Master's degree programct semesters. Among applicants be maintained and places re-al-			
Compulsory Elective	es (10 ECT	S cred	lits)									
	Practical	cours	e "Molec	ular M	achines" for advanc	ed students						
mo1	ECTS 1	.0	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			P (10)	P (10)							
	Method of assessment				Log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English							
	Modules complete		ssfully	o8-B0	C-MOLP							
	Additiona	al Infoi	mation	Addit	ional information on	module duration: bl	ock taught lab course wi	th approx. 40 working	days.			
08-BC-VPPD-161-	Practical	cours	e "Protei	n Degr	adation in Eukaryot	es" for advanced stu	dents	'				
mo1	ECTS 1	.0	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			P (10)				,				
	Method of assessment					nd talk (approx. 15 mi German and/or Engl						
	Modules successfully completed			o8-BC-MOLP								
	Additiona	al Infoi	mation	Addit	ional information on	module duration: bl	ock taught lab course wi	th approx. 40 working	days.			

08-BC-VPRB-161-	Practical course "RNA Biochemistry" for advanced students										
mo1	ECTS	10	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		P (10))			`			
	Method	of ass	essment			nd talk (approx. 15 mi					
					guage of assessment: German and/or English						
	Module comple	eted			C-MOLP						
	Additio	nal Info	rmation	Addit	ional information or	n module duration: blo	ock taught lab course v	with approx. 40 working	g days.		
08-BC-VPSB-161-	Practic	al cours	se "Struct	ural B	al Biology" for advanced students						
mo1	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			P (10)				,			
	Method	d of ass	essment			nd talk (approx. 15 mi : German and/or Engli					
	Modules successfully completed			08-B	B-BC-MOLP						
	Additio	nal Info	rmation	Addit	ional information or	n module duration: blo	ock taught lab course v	with approx. 40 working	g days.		
08-BCMS-211-m01	Special	l Topics	in Bioche	emistr	y						
	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			S (2)	+ 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-ACM2-161-m01	Bioinor	ganic C	hemistry					\ <u></u>			
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		S (3) Modi	ıle taught in: Germa	n or English			•		
	Method of assessment			exam	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-HKM1-152-m01	Organo	- and B	iocatalys	is							
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		S (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-OCM-NAT-172-	Modern	Aspect	s of Natu	ral Pro	duct Chemistry and	Biological Chemistr	y				
mo1	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			S /Mod	S /Module taught in: German or English						
	Method	of asse	essment	exam	ination in groups of	n (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral es of up to 3 candidates (15 to 30 minutes per candidate) nent: German and/or English					
	Participa cation of			ces. P	laces will be allocat	ed according to the r	number of subject semesters;	among applican	Biochemie (Biochemistry): 20 plats with the same number of sub-allocated as they become availa-		
08-MCM3-172-m01	Drug des	sign									
	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses				le taught in: Germar						
	Method	of asse	essment			minutes) with discus German and/or Engl					
	Participa cation of			the sa will be Place seme ces w	ame number of subje e given preferential of s will be allocated a sters, places will be ill be allocated acco	ect semesters; stude consideration. 6 place cording to the numballocated by lot.2 placed in g to the number	nts who have chosen Medizing tes for students of the Master per of subject semesters; amo aces for students of the Master of subject semesters; among	nische Chemie (N's degree program ong applicants wi er's degree prograpplicants with	aces will be allocated according to ledicinal Chemistry) as their focus mme Biochemie (Biochemistry): th the same number of subject amme MINT-Lehramt PLUS: Plathe same number of subject semed by lot as they become available.		
08-PH-KAC-152-	Clinical-	analyti	ical Chen	nistry			·				
mo1	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			V (3)							
	Method			Langu		ox. 120 minutes) German and/or Engl	ish				
08-PH-KACP-152-	Practica	l cours	e of clini	cal-ana	llytical Chemistry						
mo1	ECTS		Duratio		1 semester	Method of grading	(not) successfully completed	d Modul level	undergraduate		
	Courses			P (5)							
	Method of assessment			and a	ssessment of praction		4 random examinations)	. 15 minutes eac	h, log approx. 5 to 10 pages each)		

Functional Materia	ls (25 ECTS cred	dits)									
Compulsory Course	es (20 ECTS cred	dits)									
08-FMM-MP-161-	Lab Course Ma	aterial Sci	ence								
mo1	ECTS 5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Courses		P (8)								
	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) anguage of assessment: German and/or English							
08-FMM-PA-161-	Project Work										
mo1	ECTS 5	Duratio		1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Courses		P (10)								
	Method of assessment Log (approx. 15 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English										
08-OCM-FM-161-	Organic Funct	ional Mat	erials								
mo1	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		S (3)	-							
	Method 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) Language of assessment: German and/or English							
o8-FU-Ma-	Material Scien	ice 1 (Bas	ic intro	duction)							
Wi1-152-m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			+ Ü (1)							
	Method of ass	essment	exam (appr	ination in groups of ox. 30 minutes)		approx. 15 minutes per candida		each (20 to 30 minutes) or c) oral oprox. 20 pages) or e) presentation			
Compulsory Electiv	es (5 ECTS cred	lits)									
o8-FU-Ma-	Material Scien	ice 2 (The	Mater	ial Groups)							
Wi2-152-m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V (3) + Ü (1)								
	Method 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-FU-NT-152-m01	Chemic	ally an	d bio-insp	oired N	lanotechnology fo	r Material Synthesis			-			
	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	S		V (4)				·				
	Method	l of ass	essment	exam (appi	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-FU-Mo-	Molecular Materials (Lecture)											
MaV-152-m01	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	S		V (3)	(3) + S (1)							
	Method of assessment			exam (appi Lang	written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral amination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation oprox. 30 minutes)] as well as talk (approx. 30 minutes), weighted 3:1 nguage of assessment: German and/or English							
03-FU-PM1-152-	Polyme	r Chem	istry 1 (Le	cture	re and Practical Course)							
mo1	ECTS 5 Duratio								undergraduate			
	Courses				+ P (2)							
	Method of assessment			prox. Asse Lang	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) Assessment offered: Once a year, winter semester Language of assessment: German and/or English creditable for bonus							
03-FU-PM2-161-	Polyme	rs II										
mo1	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5		S (2)	+ Ü (1)							
	Method	l of ass	essment	prox.	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-FMMS-211-m01	Special	Topics	in the Fie	eld of I	Functional Materia	ls						
	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	S		S (2)	+ 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	Nanos	cale Ma	terials					,					
	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	!S	_		G (2) + Ü (1) Module taught in: German or English								
	Method of assessment			prox. Langu	written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (apox. 30 minutes) unguage of assessment: German and/or English editable for bonus								
08-SCM1-152-m01	Supramolecular Chemistry (Basics)												
	ECTS	5	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			S (3)									
	Metho	d of ass	essment			(approx. 90 minutes) or nt: German and/or Engli		f one candidate each (a	pprox. 20 minutes)				
08-ACM3-161-m01	Solid s	tate ch	emistry ar	nd inor	ganic materials								
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	!S		S (3)	3)								
				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) Language of assessment: German and/or English								
Homogeneous Cata	•		•										
Compulsory Course													
o8-HKM1-152-mo1		_											
	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course			S (3)									
	Metho	d of ass	essment	exam	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	Advand	ced org	anometall	ic che	mistry and its app	lication in homogeneou	s catalysis	,					
	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. 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-HKM3AC-161-	Practic	al cours	se "Homo	geneo	us catalysis in Inorg	anic Chemistry"	"				
mo1	ECTS	5	Duratio	n	1 semester	Method of grading (not) successfully completed	Modul level	graduate			
	Course				le taught in: Germar						
	Method	d of asso	essment	report Langu	report on practical course (approx. 10 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English						
o8-HKM3OC-161-	Practic	al cours	course "Homogeneous catalysis in Organic Chemistry"								
mo1	ECTS	5	Duratio		1 semester	Method of grading (not) successfully completed	Modul level	graduate			
	Course	S		P (6) Module taught in: German or English							
	Method	d of asso	essment		eport on practical course (approx. 10 pages) and talk (approx. 15 minutes) anguage of assessment: German and/or English						
Compulsory Electiv	es (5 EC	TS cred	its)								
08-HKM4-161-m01	Advanc	anced transition metal chemistry									
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		S (3)							
	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-HKMS-211-m01	Special	lTopics	in Homo	geneou	ıs Catalysis						
	ECTS	5	Duratio	1	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		S (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-PCM2-161-m01	Statisti	ical Med	chanics a	nd Rea	ction Dynamics						
	ECTS 5 Duration				on 1 semester Method of grading numerical grade Modul level graduate						
	Course	S		$S(2) + \ddot{U}(1)$ Module taught in: German or English							
	Method	d of asso	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							

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08-OCM-SYNT-161-						1		1					
mo1	ECTS	5	Duration		1 semester	Method of grading nu	umerical grade	Modul level	graduate				
	Course	S		S (2) +									
					le taught in: Germa								
	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-TCM2-161-m01	Rasics	and Ani	nlications		antum Chemistry	Comman and/or English	1						
00 TCWIZ 101 III01		5 5	Duration		1 semester	Method of grading nu	Imerical grade	Modul level	graduate				
	Course		Duration	S (2) -		Method of grading ne	different grade	Modulitevel	graduate				
			o s s m o m t	` ′		nnyay aa ta 10a minuta	(s) or h) arel eversingtion of	ana sandidata (anch (an to an minutes) are) arel				
	method	Method of assessment							each (20 to 30 minutes) or c) oral prox. 20 pages) or e) presentation				
					ox. 30 minutes)	up to 3 candidates (app	nox. 13 minutes per canalaa	te) of a) tog (ap	prox. 20 pages) of c) presentation				
						: German and/or English	1						
03-FU-PM1-152-	Polymer Chemistry 1 (Lecture and Practical Course)												
mo1	ECTS 5 Duratio			1	1 semester	Method of grading nu	umerical grade	Modul level	undergraduate				
	Course	S		V (2) +	+ P (2)								
	Method	d of asse	essment		a) assessment and b) Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log ap-								
					prox. 5 to 10 pages each) and assessment of practical assignments (2 to 4 random examinations)								
						e a year, winter semeste : German and/or English							
					able for bonus	dennan and/or English	I						
Medicinal Chemisti	ry (25 EC	TS cred	lits)										
Compulsory Course	s (15 EC	TS cred	its)										
08-MCM1-161-m01	Practic	al cours	e medicir	nal che	mistry								
	ECTS	10	Duration	1	1 semester	Method of grading (n	ot) successfully completed	Modul level	graduate				
	Course	S		P (10)		•		•	•				
				Modu	Module taught in: German or English								
	Method of assessment			Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each)									
		a		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-MCM3-172-mo1	Drug d	esign	1						-			
	ECTS	5	Duratio	n	1 semester	Method of grading Inc	umerical grade	Modul level	graduate			
	Course	!S			+ Ü (1) ıle taught in: Gerr	nan or English						
	Metho	d of ass	essment	presentation (approx. 30 minutes) with discussion Language of assessment: German and/or English								
		pants ar of place		the sawill be placed seme ces w	22 places. 16 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. 6 places for students of the Master's degree programme Biochemie (Biochemistry): 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.2 places for students of the Master's degree programme MINT-Lehramt PLUS: 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 Course	s (10 EC	TS cred	lits)									
08-MCM2a-161-	Pharm	aceutica	al/Medici	nal Ch	emistry 1							
mo1	ECTS 5 Duration			n	1 semester	Method of grading In	umerical grade	Modul level	graduate			
	Course			V (3)	-			•	-			
	Method of assessment			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) Language of assessment: German and/or English							
08-MCM2b-161-	Pharm	aceutica	al/Medici	nal Ch	emistry 2							
mo1	ECTS	5	Duratio	n	1 semester	Method of grading no	umerical grade	Modul level	graduate			
	Course	!S		V (3)		<u> </u>			*			
	Metho	d of ass	essment	exam (appr	nination in groups rox. 30 minutes)		prox. 15 minutes per candid		each (20 to 30 minutes) or c) oral prox. 20 pages) or e) presentation			
08-MCMS-211-m01	Specia	l Topics	in Medic	inal Cl	nemistry			,				
	ECTS	5	Duratio	n	1 semester	Method of grading In	umerical grade	Modul level	graduate			
	Course	!S		S (2)	+ Ü (1)							
	Method of assessment			exam (appr	nination in groups rox. 30 minutes)		orox. 15 minutes per candid		each (20 to 30 minutes) or c) oral prox. 20 pages) or e) presentation			

o8-MBC-MSP-161-	Mass-S	Spectro	metry and	Prote	omics				-				
mo1	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		Mòdı	V (2) + S (1) + P (2) Module taught in: German or English								
	Method	d of ass	sessment	to 30 to 40 Asses	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) Assessment offered: Once a year, winter semester Language of assessment: German and/or English								
	Particip cation		nd allo- es	67 pl	aces.								
Supramolecular Ch	emistry	(25 EC	TS credits)									
Compulsory Course	es (10 EC	TS cre	dits)										
08-SCM1-152-m01	Supran	nolecul	ar Chemis	try (Ba	y (Basics)								
	ECTS 5 Duratio			n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			S (3)									
	Method	d of ass	sessment	a) wri	ipprox. 20 minutes)								
08-SCM2-161-m01	Supran	nolecul	ar Chemis	try (Pı	actical Course)								
	ECTS	5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Course	S		P (6) Modu	P (6) Module taught in: German 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 performance (2 to 4 random examinations) Language of assessment: German and/or English								
	Module comple		essfully	o8-S0	CM1								
Compulsory Elective	es (15 E	CTS cre	edits)										
08-SCM3-152-m01	Bioorg	anic Ch	emistry										
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course			S (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-SCM4-161-m01	Supram	Supramolecular Chemistry (Advanced Lab)												
	ECTS	5	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate					
	Courses			P (6) Modu	le taught in: Germar	n or English								
	Method	of asse	essment		ntation (approx. 20 lage of assessment:	minutes) German and/or Engl	ish							
	Modules complet		ssfully	o8-S0	CM2									
	Addition	nal Info	rmation	Addit	Additional information on module duration: block taught lab course with approx. 20 working days.									
08-SCMS-211-m01	Special	Topics	in Supra	molecı	ılar Chemistry			"						
	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses		-	S (2)	(2) + Ü (1)									
				exam (appr Langu	written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral samination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation pprox. 30 minutes) anguage of assessment: German and/or English									
08-PCM5-161-m01	Physica	l Chem	istry of S	upram	olecular Assemblies	5								
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses				S (2) + Ü (1) Module taught in: German or English									
	Method	of asse	essment	prox.	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	Bioinorg	ganic C	hemistry											
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses	i	•	S (3) Modu	le taught in: Germar	n or English								
	Method	of asse	essment	exam	ination in groups of	pprox. 45 to 90 minut up to 3 candidates (1 German and/or Engl	5 to 30 minutes per candidate)	ne candidate ea)	ach (20 to 30 minutes) or c) oral					
08-TCM2-161-m01	Basics a	nd App	olications	of Qu	antum Chemistry									
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses		•	S (2)	+ Ü (2)			•						
	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 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										

08-0CM-FM-161-	Organi	ic Funct	ional Mate	erials											
mo1	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate						
	Course	es		S (3)		•		•							
	Method of assessment			exam (app	written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral amination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation oprox. 30 minutes) aguage of assessment: German and/or English										
08-PCM3-161-m01	Nanoscale Materials														
_	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate						
	Course	es	'		+ Ü (1) ule taught in: Germ	an or English			•						
	Metho	d of ass	essment	prox. Lang) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (aprox. 30 minutes) anguage of assessment: German and/or English reditable for bonus										
Theoretical Chemis	try (25	y (25 ECTS credits)													
Compulsory Course	es (15 EC														
08-TCM2-161-m01	Basics and Applications of Quantum Chemistry														
	ECTS 5 Duration			1	1 semester	Method of grading	numerical grade	Modul level	graduate						
	Course	25		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) presentatic (approx. 30 minutes) Language of assessment: German and/or English											
o8-TCM3-161-mo1	Numer	ical Me	thods and	Prog	ramming										
	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate						
	Course				+ Ü (2)										
	Method of assessme			a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) (approx. 30 minutes) Language of assessment: German and/or English											
o8-TCM4-161-mo1	Quanti	um Dyna	amics												
	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate						
	Course			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) examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) present (approx. 30 minutes) Language of assessment: German and/or English											

Compulsory Electiv	es (10 E	CTS cred	dits)								
08-TCM1-161-m01	Selecte	d Topic	s in Theo	retical	Chemistry						
	ECTS	5	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		S (2) +	- Ü (2)	•					
	Method	d of asse	essment	exami (appro) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral xamination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation approx. 30 minutes) anguage of assessment: German and/or English						
08-TCAP1-161-m01	Theore	etical Chemistry - Project course quantum chemistry									
	ECTS	5	Duration	ı	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Course	urses P (5)									
	Method	hod of assessment 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-TCAP2-161-m01	Theore	tical Ch	emistry -	Project	t course quantum dy	ynamics					
	ECTS	5	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Course			P (5)							
	Method	d of asse	essment		ntation (approx. 30 age of assessment:	minutes) German and/or Engl	ish				
	Additio	nal Info	rmation	Additi	onal information on	module duration: bl	ock taught lab course with app	rox. 20 working	days.		
08-TCMS-211-m01	Special	l Topics	in Theore	etical C	hemistry						
	ECTS	5	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		S (2) + Ü (1)							
	Method	d of asse	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) pro (approx. 30 minutes) Language of assessment: German and/or English								

08-MCM3-172-m01	Drug design												
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses			S (2) + Ü (1) Module taught in: German or English									
	Method of as	sessment	prese	presentation (approx. 30 minutes) with discussion Language of assessment: German and/or English									
	Participants a cation of plac		22 places. 16 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. 6 places for students of the Master's degree programme Biochemie (Biochemistry): 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.2 places for students of the Master's degree programme MINT-Lehramt PLUS: 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.										
Additional qualifica	ations (15 ECTS	credits)											
In the sub-area "Zu area that they are n	sätzliche Kom ot using in the	oetenzen a area of m	aus der andato	ory electives 1.	TS credits) Additional Skills fron	n the Focus Area"), student	s may use a module	e of their choice from the Focus					
-	Molecular Bio												
m01	ECTS 10 Courses	Duratio	n P (5)	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Method of as	sessment	to 30 tion (area Asses	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) Assessment offered: Once a year, winter semester Language of assessment: German and/or English									
	Participants a cation of plac		Bioch numb Quota avera appli main Chem gree ber o waitii ter pr me M with t	nemie (Biochemistry) per of applications exa 1 (two thirds of places will ge grade, places will cant; among applica tained and places revie (Chemistry), Mastorogramme Chemie of subject semesters. In glist will be mainta ocedure 1 is finished INT-Lehramt PLUS as	24 places. Selection xceed the number of ces): current average I be allocated by lot. Ints with the same nurallocated as they be ter's and MINT-Lehrar (Chemistry) (120 ECTS Among applicants wined and places re-ad completely, theses is follows: Places will subject semesters, p	n process Biochemie (Bioch available places, places wi grade of successfully com Quota 2 (one third of place amber of subject semesters come available. mt PLUS Master's: 6 places S credits) will be considere ith the same number of sul llocated by lot as they beco places will be distributed a be allocated according to t	ill be allocated accopleted modules; ames): number of subject, places will be allowed. Solution process differs: Places will be bject semesters, places will be available. 2. In among the students the number of subject sub	s (180 ECTS credits): Should the ording to the following quotas: nong applicants with the same ect semesters of the respective ecated by lot. A waiting list will be : 1. Applications of Master's dee allocated according to the numbers will be allocated by lot. A case that there are places left afin the Master's degree programent sect semesters. Among applicants I be maintained and places re-al-					

08-HKM1-152-m01	Organo	o- and Bi	iocatalys	is								
	ECTS	5	Duratio	n	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-MCM3-172-m01												
	ECTS 5 Duration				1 semester Method of grading numerical grade Modul level graduate							
	Courses			S (2) - Modu	+ Ü (1) le taught in: Germar	n or English						
	Method	d of asse	essment			minutes) with discussion German and/or English						
		Participants and allo- cation of places			ame number of subject	tudents of the Master's degree programme Chemie ect semesters; students who have chosen Medizinis consideration. 6 places for students of the Master's ccording to the number of subject semesters; amon allocated by lot.2 places for students of the Master ording to the number of subject semesters; among a ated by lot; a waiting list will be maintained and placets.	sche Chemie (M degree prograr g applicants wi 's degree progr pplicants with t	dedicinal Chemistry) as their focus mme Biochemie (Biochemistry): th the same number of subject amme MINT-Lehramt PLUS: Pla- the same number of subject seme-				
08-PH-KAC-152-	Clinical-analytical Chemistry											
mo1	ECTS 5 Duratio			n	1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	S		V (3)	•							
				written examination (approx. 120 minutes) Language of assessment: German and/or English								
08-PH-KACP-152-	Practic	al cours	e of clini	cal-ana	llytical Chemistry							
mo1	ECTS	5	Duratio	n	1 semester	Method of grading (not) successfully completed	Modul level	undergraduate				
	Course	S		P (5)	•							
	Method	d of asse	essment	and a	ssessment of practi	ore and post-experiment examination talks approx. cal performance (2 to 4 random examinations) German and/or English	15 minutes eac	n, log approx. 5 to 10 pages each)				
08-SCM3-152-m01	Bioorg	anic Che	emistry									
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		S (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-SCM1-152-m01	Supram	olecula	r Chemis	try (Ba	try (Basics)								
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	;		S (3)									
	Method	of asse	essment			prox. 90 minutes) o German and/or Engl	r b) oral examination of one ca ish	ndidate each (a	pprox. 20 minutes)				
o8-FU-Mo-	Molecu	lar Mat	erials (Le	cture)									
MaV-152-mo1	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses	5		V (3) -	V (3) + S (1)								
	Method	of asse	essment	exam (appr	ritten examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) ora nination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentations. 30 minutes)] as well as talk (approx. 30 minutes), weighted 3:1 uage of assessment: German and/or English								
08-FU-NT-152-m01	Chemic	ally and	l bio-insp	oired N	anotechnology for N	Naterial Synthesis		'					
	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses	5		V (4)									
	Method	of asse	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) Language of assessment: German and/or English								
o8-FU-Ma-	Materia	Material Science 1 (Basic introduction)											
Wi1-152-m01	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses	;		V (3) -	+ Ü (1)			•					
	Method	of asse	essment	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) processed (approx. 30 minutes) Language of assessment: German and/or English									
o8-FU-Ma-	Materia	l Scien	ce 2 (The	Mater	ial Groups)								
Wi2-152-mo1	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses	5	•	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 Chemi	istry 1 (Le	ecture a	and Practical Course	2)							
mo1	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S	•	V (2) -	+ P (2)	•		•					
	Method	d of asse	essment	prox. Asses Langu	assessment and b) Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log aprox. 5 to 10 pages each) and assessment of practical assignments (2 to 4 random examinations) assessment offered: Once a year, winter semester anguage of assessment: German and/or English editable for bonus								
08-PCM1a-161-	Laser S	pectros	сору										
mo1	ECTS	5	Duration	n .	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S			δ (2) + Ü (1) Aodule taught in: German or English								
			essment	Langu	vritten examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) guage of assessment: German and/or English								
o8-PCM1b-161-	Advanc	ed Phys	ical Cher	mistry	(Lab)								
mo1	ECTS	5	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Course	S		P (4) Module taught in: German or English									
	Method	d 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								
	Additio	nal Info	rmation	Additi	dditional information on module duration: block taught lab course with approx. 20 working days.								
08-PCM2-161-m01	Statist	ical Med	hanics a	nd Rea	ction Dynamics								
	ECTS	5	Duration	1	1 semester	Method of grading	graduate						
	Course	S	•		1 semester Method of grading numerical grade Modul level graduate S (2) + Ü (1) Module taught in: German or English								
	Method	d of asse	essment	prox.	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 Mat	erials					1					
	ECTS	5	Duration	1	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			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 spec	troscopy a	and qu	nd quantum-control							
	ECTS	5	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (2) ·								
					le taught in: Germ			_				
	Method	d of ass	essment			approx. 90 minutes) or	b) oral examination of one car	ndidate each (a	pprox. 20 minutes) or c) talk (ap-			
					30 minutes) Jage of assessmen	t: German and/or Englis	sh					
	other p	rereaui	sites			ules o8-PCM1a and o8-						
08-PCM5-161-m01					olecular Assembli							
	_	5	Duration	•	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S	·		(2) + Ü (1) odule taught in: German or English							
	Method	d of ass	essment	prox.) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (a rox. 30 minutes) anguage of assessment: German and/or English							
08-PCM6-161-m01	Physica	al Chem	nistry (Adv	anced	Lab)							
	ECTS	5	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course	S		P (4) Modu	Module taught in: German or English							
	Method	d of ass	essment		oresentation (approx. 20 minutes) anguage of assessment: German and/or English							
	Additio	nal Info	rmation	Addit	onal information o	on module duration: blo	ck taught lab course with app	rox. 20 working	days.			
08-TCM2-161-m01	Basics	and Ap	plications	of Qu	antum Chemistry							
	ECTS	5	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (2) ·	+ Ü (2)							
				exam (appr Langu	ination in groups c ox. 30 minutes) lage of assessmen	approx. 90 to 180 minu of up to 3 candidates (ap t: German and/or Englis	pprox. 15 minutes per candida	one candidate (ate) or d) log (ap	each (20 to 30 minutes) or c) oral oprox. 20 pages) or e) presentation			
08-TCM3-161-m01	Numeri	cal Met	thods and	Progr	amming							
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course			. ,	e) + Ü (2)							
	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-TCM4-161-m01	Quantu	m Dyna	mics										
	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	5	-	S (2)	+ Ü (2)	·							
	Method	l of asse	essment	exam					each (20 to 30 minutes) or c) oral prox. 20 pages) or e) presentation				
				Langu	uage of assessment	t: German and/or Engli	sh						
08-TCM1-161-m01	Selecte	d Topic	s in Theo	retical	Chemistry								
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses				+ Ü (2)								
	Method	l of asse	essment	exam (appr	written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral amination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentatio pprox. 30 minutes) nguage of assessment: German and/or English								
08-TCAP1-161-m01	Theoret	tical Ch	hemistry - Project course quantum chemistry										
	ECTS				1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Courses	S		P (5)									
	Method	l of asse	essment	prese Langu									
	Additio	nal Info	rmation	Addit	Additional information on module duration: block taught lab course with approx. 20 working days.								
08-TCAP2-161-m01	Theoret	tical Ch	emistry -	Projec	t course quantum o	dynamics							
	ECTS	5	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Courses	S		P (5)	_								
	Method	l of asse	essment		ntation (approx. 30 uage of assessment	o minutes) t: German and/or Engli	sh						
	Additio	nal Info	rmation	Addit	ional information o	on module duration: blo	ck taught lab course with app	rox. 20 working	days.				
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	S		S (3) ·	+ 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) or examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presents (approx. 30 minutes) Language of assessment: German and/or English									

08-ACPM-161-m01	Inorgan	ic Chen	nistry pra	ctical	course for advanced						
	ECTS	10	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Courses	j		P (24) Modu	le taught in: Germar	n or English					
	Method	of asse	essment			(approx. 20 pages) a German and/or Engl	and talk (approx. 15 minutes) ish				
	Addition	nal Info	rmation	Addit	ional information on	module duration: bl	ock taught lab course with app	rox. 40 working	g days.		
08-ACM2-161-m01	Bioinor	ganic C	hemistry								
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	3		S (3) Modu	le taught in: Germar	n or English					
	Method	of asse	essment	exam	ination in groups of		5 to 30 minutes per candidate		ach (20 to 30 minutes) or c) oral		
08-ACM3-161-m01	Solid st	ate che	mistry ar	nd inor	ganic materials			,			
	ECTS 5 Duration			n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	;	,	S (3)	-			,			
	Method of assessment			exam (appr) 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) anguage of assessment: German and/or English						
08-OCM-SYNT-161-	Modern	Synthe	etic Meth	ods							
mo1	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	;		S (2) - Modu	+ Ü (1) lle taught in: Germar	n or English					
	Method	of asse	essment	exam (appr	ination in groups of ox. 30 minutes)		ipprox. 15 minutes per candida		each (20 to 30 minutes) or c) oral oprox. 20 pages) or e) presentation		
08-OCM-AKP1-161-	Advance	ed Rese	arch Pro	ject Or	ganic Chemistry						
mo1	ECTS	10	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Courses	Courses			le taught in: Germar	n or English		-			
	Method of assessment				Log (approx. 15 to 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English						

08-OCM-NAT-172-	Modern	Aspect	s 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	i		S /Mod	Module taught in: German or English							
08-OCM-FM-161-	Method	of asse	essment	exam	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							
	Participa cation o			ces. F	aster's degree programme Chemie (Chemistry): no limitation. Master's degree programme Biochemie (Biochemistry): 20 plas. Places will be allocated according to the number of subject semesters; among applicants with the same number of subtract semesters, places will be allocated by lot A waiting list will be maintained and places re-allocated as they become availate.							
	Organic	Function	onal Mat	erials								
mo1	ECTS 5 Duratio			n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	i		S (3)	•	-		•				
08-BC-	Method of assessment			exam (appr Langu	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation approx. 30 minutes) Language of assessment: German and/or English Vanced Students							
MOLMC-161-mo1		5	Duration		1 semester	Method of grading	numorical grado	Modul level	graduate			
			Duration		<u> </u>	Method of grading	Tiumencai grade	Modulitevel	graduate			
	Method of assessment			a) wri exam (appr	V (2) + Ü (1) a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) prox. 30 minutes) Language of assessment: German and/or English							
08-BC-VPMM-161-	Practica	l 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	i		P (10)	- -							
	Method of assessment				Log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English							
	Modules successfully completed			08-B0	o8-BC-MOLP							
	Addition	nal Info	rmation	Addit	ional information on	module duration: b	ock taught lab course	with approx. 40 working	g days.			

08-BC-VPPD-161-	Practica	al cours	e "Protei	n Degr	Degradation in Eukaryotes" for advanced students							
mo1	ECTS	10	Duration	า	1 semester	Method of gradi	ng numerical grade	Modul level	graduate			
	Courses	5	•	P (10)	•	•		•				
	Method	of asse	essment			and talk (approx. 15						
			_			nt: German and/or E	nglish					
	Module comple		essfully	o8-BC	C-MOLP							
	Additio	nal Info	rmation	Additi	onal information	on module duration	: block taught lab course with app	rox. 40 working	g days.			
08-BC-VPRB-161-	Practica	al cours	e "RNA B	iochen	nistry" for advanc	ed students						
mo1	ECTS	10	Duration	1	1 semester	Method of gradi	ng numerical grade	Modul level	graduate			
	Courses	5		P (10)	•							
	Method	l of asse	essment		(approx. 20 pages) and talk (approx. 15 minutes) guage of assessment: German and/or English							
	Module comple		essfully	08-BC	-MOLP	-MOLP						
	Additio	nal Info	rmation	Additi	onal information	on module duration	: block taught lab course with app	rox. 40 working	days.			
08-BC-VPSB-161-	Practica	al cours	e "Struct	ural Bi	ology" for advanc	ed students						
mo1	ECTS 10 Duratio			1	1 semester	Method of gradi	ng numerical grade	Modul level	graduate			
	Courses			P (10)	•		•	•				
	Method	l of asse	essment	Log (a Langu	Log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English							
	Module comple		essfully	08-BC	o8-BC-MOLP							
	Additio	nal Info	rmation	Additi	ional information	on module duration	: block taught lab course with app	rox. 40 working	g days.			
08-FMM-MP-161-	Lab Cou	ırse Ma	terial Sci	ence								
mo1	ECTS	5	Duration	ı	1 semester	Method of gradi	ng (not) successfully completed	Modul level	graduate			
	Courses	5		P (8)	•	•	•	•				
	Method	of asse	essment					15 minutes eac	h, log approx. 5 to 10 pages each)			
							2 to 4 random examinations)					
08-FMM-PA-161-	Project	Work		0-	Language of assessment: German and/or English							
mo1	ECTS 5 Duratio			1	1 semester	Method of gradi	ng (not) successfully completed	Modul level	graduate			
	Courses			P (10)								
	Method			Log (approx. 15 pages) and talk (approx. 15 minutes)								
	Method of assessment			Log (approx. 15 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English								

03-FU-PM2-161-	Polyme	Polymers II												
mo1	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses	S	·	S (2)	+ Ü (1)			,						
	Method	l of ass	essment			(approx. 90 minutes) o	or b) oral examination of one ca	andidate each (a	approx. 20 minutes) or c) talk (ap-					
					30 minutes)	nt: German and/or Eng	rlish							
08-HKM2-161-m01	Advanc	ed orga	anometall			lication in homogened								
		5	Duratio		1 semester	Method of grading		Modul level	graduate					
	Courses	5		S (3) Modu	le taught in: Germ	an or English								
	Method	l of ass	essment	exam (appr	ination in groups (ox. 30 minutes)	xamination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral n in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation								
08-HKM3AC-161-	Practica	al cours	se "Homo	geneo	us catalysis in Ino	rganic Chemistry"								
mo1	ECTS	5	Duratio	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate					
	Courses	S		P (6) Modu	lle taught in: Germ	an or English								
	Method of assessment			repor Langı	report on practical course (approx. 10 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English									
08-HKM30C-161-	Practica	al cours	se "Homo		us catalysis in Org									
mo1	ECTS	5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate					
	Courses	5		P (6) Modu	lle taught in: Germ	an or English								
	Method	l of ass	essment	repor Langu	t on practical cour uage of assessmer	se (approx. 10 pages) nt: German and/or Eng	and talk (approx. 15 minutes) rlish							
08-HKM4-161-m01	Advanc	ed tran	sition me	tal che	emistry									
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses	S	·	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-MCM1-161-m01		al cour	se medicii	nal che	mistry							
	ECTS	10	Duratio	1	1 semester	Method of grading (not)	successfully completed	Modul level	graduate			
	Course	S		P (10)								
					le taught in: Germa							
	Method	d of ass	essment	and a	ssessment of pract	pre and post-experiment e ical assignments (2 to 4 ra : German and/or English	xamination talks approx. ndom examinations) as w	15 minutes each ell as report (30	n, log approx. 5 to 10 pages each) to 50 pages)			
o8-MCM2a-161-	Pharma	aceutic	al/Medici	nal Che	emistry 1							
mo1	ECTS	5	Duratio	1	1 semester	Method of grading num	erical grade	Modul level	graduate			
	Course	s S		V (3)				•	•			
	Method	d of ass	essment	exami (appr	ination in groups of ox. 30 minutes)				each (20 to 30 minutes) or c) oral prox. 20 pages) or e) presentation			
08-MCM2b-161-	Pharma	aceutic	al/Medici	nal Che	emistry 2							
mo1	ECTS 5 Duratio			<u> </u>	1 semester	Method of grading num	erical grade	Modul level	graduate			
	Courses			V (3)	•							
	Method	d of ass	essment	exami (appr	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) pr (approx. 30 minutes) Language of assessment: German and/or English							
08-MBC-MSP-161-	Mass-S	pectro	metry and	Prote	omics							
mo1	ECTS	5	Duratio	1	1 semester	Method of grading num	erical grade	Modul level	graduate			
	Course	S	-	V (2) + S (1) + P (2) Module taught in: German or English								
	Method	d of ass	essment	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) Assessment offered: Once a year, winter semester Language of assessment: German and/or English								
	Particip cation		nd allo- es	67 places.								

08-SCM2-161-m01	Supram	olecula	r Chemis	try (Pr	y (Practical Course)								
	ECTS	5	Duration		1 semester	Method of grading	(not) successfully comp	pleted	Modul level	graduate			
	Courses	5		P (6) Modu	le taught in: Germa	n or English							
	Method	l of asse		and a	ssessment of practi		4 random examinations		5 minutes each	n, log approx. 5 to 10 pages each)			
	Module comple		essfully	08-SC	CM1								
08-SCM4-161-m01	Supram	olecula	r Chemis	try (Ad	lvanced Lab)								
	ECTS	5	Duration		1 semester	Method of grading	(not) successfully comp	pleted	Modul level	graduate			
	Courses	5		P (6) Modu	dule taught in: German or English								
	Method	l of asse			ntation (approx. 20 lage of assessment	minutes) : German and/or Engl	ish						
	Module comple		essfully	08-SC	CM2								
	Additio	nal Info	rmation	Addit	dditional information on module duration: block taught lab course with approx. 20 working days.								
08-ACMS-211-m01	Special	Topics	pics in Inorganic Chemistry										
	ECTS	5	Duration		1 semester	Method of grading	numerical grade		Modul level	graduate			
	Courses	5		S (2) -	+ Ü (1)								
	Method	l of asse		exam (appr	n) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presonangerox. 30 minutes) anguage of assessment: German and/or English								
08-BCMS-211-m01	Special	Topics	in Bioche	mistry	,								
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Î	Modul level	graduate			
	Courses	5		S (2) -	+ Ü (1)			-					
	Method	l of asse		exam (appr	ination in groups of ox. 30 minutes)	pprox. 90 to 180 mini up to 3 candidates (a : German and/or Engl	pprox. 15 minutes per c	tion of o andidate	ne candidate e e) or d) log (ap	each (20 to 30 minutes) or c) oral prox. 20 pages) or e) presentation			
08-HKMS-211-m01	Special	Topics	in Homog	eneou	is Catalysis								
	ECTS	5	Duration		1 semester	Method of grading	numerical grade		Modul level	graduate			
	Courses	5	·	S (2) -	+ Ü (1)								
	Method	of asse		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-MCMS-211-m01	Specia	l Topics	in Medici	nal Ch	emistry								
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		S (2)	+ Ü (1)								
	Method	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) Language of assessment: German and/or English								
08-0CMS-211-m01	Specia	l Topics	in Organi	ic Che	mistry								
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	:S		S (2)	+ Ü (1)								
				exam (appr Langu	ination in groups o ox. 30 minutes) uage of assessmen		approx. 15 minutes pe		each (20 to 30 minutes) or c) oral prox. 20 pages) or e) presentation				
08-PCMS-211-m01	Specia	l Topics			mistry								
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	!S		S (2)	$\ddot{b}(2) + \ddot{U}(1)$								
	Method	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) or examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentat (approx. 30 minutes) Language of assessment: German and/or English								
08-SCMS-211-m01	Specia	l Topics	in Suprai	nolecı	ılar Chemistry								
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	:S	,	S (2)	+ Ü (1)	•	•	•					
	Method				a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minute examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) (approx. 30 minutes) Language of assessment: German and/or English								
08-TCMS-211-m01	Specia	l Topics	in Theore	tical (hemistry								
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	:S	•	S (2)	+ 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-FMMS-211-m01	Special	l Topics	in the Fie	ld of F	unctional Materials			"				
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (2) -	+ Ü (1)		<u> </u>					
	Method	d of asso	essment	exami (appr	ination in groups of ox. 30 minutes)		approx. 15 minutes per cand		each (20 to 30 minutes) or c) oral oprox. 20 pages) or e) presentation			
Subfield Other addi	tional q	ualifica	tions (10	ECTS o	redits)							
08-WRM1-161-m01	Tutorin	g 1 (pra	ctical cou	rse)								
ĺ	ECTS	5	Duration	1	1 semester	Method of grading	(not) successfully complete	ed Modul level	graduate			
	Course	S		T (3)			<u> </u>		•			
	Method	d of asso	essment			ration of status and, German and/or Eng	or wrap-up reports, approx. lish	100 hours total)				
	other p	er prerequisites It 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 o8-WRM1.										
08-WRM2-161-m01	Tutorin	g 2 (pra	ictical cou	ırse)				,				
	ECTS	5	Duration	1	1 semester	Method of grading	(not) successfully complete	ed Modul level	graduate			
	Course	S		T (3)								
	Method	d of asso	essment		oring activities, (preparation of status and/or wrap-up reports, approx. 100 hours total) Iguage of assessment: German and/or English							
	other p	rerequi		It is no	t is not permitted to use activities performed under a research assistant contract for this module. The tutorial must accomy a different course than the tutorial held in module o8-WRM1.							
08-APM1-161-m01	Foreign	Studie	s (short)									
[ECTS	5	Duration	1	1 semester	Method of grading	(not) successfully complete	ed Modul level	graduate			
	Course	S		P (o) Modu	le taught in: Germai	n and/or English and	potentially language of the	respective country	y			
	Method	d of asso	essment			or b) talk (10 to 20 n German and/or Eng	ninutes) lish and potentially language	e of the respective	e country			
	other p	rerequi	sites	May n	ot be combined wit	h o8-APM2.						
	Additio	nal Info	rmation	Additi	onal information on	module duration: b	lock placement abroad with	a duration of no le	ess than 20 working days.			
08-APM2-161-m01	Foreign	Studie	s (long)					,				
ĺ	ECTS	10	Duration	1	1 semester	Method of grading	(not) successfully complete	ed Modul level	graduate			
	Course	S		P (o) Modu	le taught in: Germar	n and/or English and	potentially language of the	respective country	y			
Ì	Method	d of asso	essment			or b) talk (15 to 30 m German and/or Eng	iinutes) Iish and potentially language	e of the respective	country			
	other p	rerequi	sites	May n	ot be combined wit	h o8-APM1.						
	Additio	nal Info	rmation	Additi	onal information on	n module duration: b	lock placement abroad with	a duration of no le	ess than 40 working days.			

08-CHPM1-161- m01	Chemistry-related competences outside of the Natural Sciences									
	ECTS 5 Duration		า	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Courses			No courses assigned to module						
	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						
	other prerequisites			Please consult with course advisory service in advance.						
08-CHPM2-161- m01	Chemis	stry-rel	ated comp	etenc	etences within the Natural Sciences					
	ECTS 5 Duration			1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate	
	Course	S		No co	urses assigned to	module				
	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						
	other p	rerequi	sites	Please consult with course advisory service in advance.						
08-CHPM3-161- m01	Chemistry-related competences outside of the Natural Sciences acquired abroad									
	ECTS 5 Duration			<u> </u>	1 semester	Method of grading	(not) successfully completed	Modul level	graduate	
	Course	S		No courses assigned to module Module taught in: German and/or English and potentially language of the respective country						
	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 and potentially language of the respective country						
	other p	rerequi	sites	Please consult with course advisory service in advance.						
08-CHPM4-161- mo1	Chemistry-related competences within the Natural Sciences acquired abroad									
	ECTS	5	Duratio	า	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate	
	Courses			No courses assigned to module Module taught in: German and/or English and potentially language of the respective country						
	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 and potentially language of the respective country						
	other prerequisites			Please consult with course advisory service in advance.						

Thesis (30 ECTS cr	edits)									
08-MA-161-m01		-Thesis	Chemisti	v						
00 1111 1101	ECTS	30	Duratio	<u> </u>	1 semester	Method of grading numerical grade	Modul level	graduate		
	Course			No co	urses assigned to m			10		
	Method of assessment			Master's thesis (approx. 60 to 80 pages) Language of assessment: German and/or English						
	other p	rerequi	sites	Where	e applicable, specifi	c modules as specified by supervisor.				
	Additio	nal Info	rmation	Time	to complete: 6 mont	hs.				
Compulsory Cours	es (doub	le degre	ee) (35 EC	TS cre	dits)					
Subfield Courses a	at partne	r univer	sity abroa	ad (5 E	CTS credits)					
03-TR-152-m01	Toxicol	logy and	l legal st	ıdies						
	ECTS	3	Duratio	<u> </u>	1 semester	Method of grading numerical grade	Modul level	undergraduate		
	Course	S		V (1) +	- V (1)		•			
	Method	d of asso	essment	writte	n examination (app	rox. 90 minutes)				
	Referred to in LPO I			§ 22 Nr. 1 h) § 22 Nr. 2 f) § 22 Nr. 3 f)						
08-VPM-DA-161-	Advanc	ed cher	nical pra	ctical course						
mo1	ECTS	2	Duratio	1	1 semester	Method of grading (not) successfully completed	Modul level	graduate		
	Course	S		P (3)						
	Method	d of asso	essment	report (approx. 3 pages) Language of assessment: German and/or English						
Subfield Courses a	at partne	r univer	sity abroa	ad (30	ECTS credits)					
08-VPU-161-m01	Qualifi	cations	- Partner	Univer	sity					
	ECTS 30 Duratio			1	1 semester	Method of grading (not) successfully completed	Modul level	graduate		
	Course	S		No co	urses assigned to m	nodule				
	Method	d of asso	essment		Assessments as specified by partner university abroad Language of assessment: German and/or language spoken at partner university abroad					
	other p	rerequi	sites			e advisory service in advance.				

Students must take one focus with 25 ECTS credits as well as one focus with 30 ECTS credits (focuses 1 and 2 pursuant to Section 3 Subsection 2 FSB (subject-specific provisions) Annex DA), provisions on available combinations are set out in Section 3 Subsection 2 Sentence 8 FSB.

Inorganic Chemistry (25 or 30 ECTS credits)

Compulsory Courses ((20 ECTS credits)
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Compulsory Course	es (20 EC	CTS cred	lits)										
08-ACM1-161-m01	Advanc	ed Inor	ganic Che	emistry	1								
	ECTS	10	Duratio	n	2 semester	Method of grading numerical grade	Modul level	graduate					
	Course	S	•	S (3) -	+ S (3)		·						
	Method of assessment			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) Language of assessment: German and/or English								
08-ACPM-161-m01	Inorgai	Inorganic Chemistry practical course for advanced											
	ECTS	10	Duratio	n	1 semester	Method of grading (not) successfully complete	ed Modul level	graduate					
	Course	S	•	P (24) Modu	le taught in: Germar	n or English	·						
	Method	d of asso	essment	report on practical course (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English									
	Additional Information			Addit	ional information on	module duration: block taught lab course with a	approx. 40 working	days.					
Compulsory Elective	es (5 or	10 ECTS	credits)										
08-ACM2-161-m01	Bioinorganic Chemistry												
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses			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-ACM3-161-m01	Solid s	tate che	emistry a	nd inor	ganic materials								
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	S		S (3)			'						
	Method of assessment			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) Language of assessment: German and/or English								

08-HKM2-161-m01	Advanc	ed orga	nometall	ic cher	nistry and its applic	cation in homogeneous catalysis		- -			
	ECTS	5	Duration		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			exami (appro	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	Duratio	1	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		S (2) -	- Ü (2)						
	Method	d of ass	essment	exami (appro	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 or 30	o ECTS	credits)								
Compulsory Course	es (15 EC	TS cred	lits)								
08-OCM-SYNT-161-	Moderr	1 Synth	etic Meth	ods							
mo1	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses			S (2) + Ü (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-OCM-AKP1-161-	Advanc	ed Res	earch Pro	ect Or	ganic Chemistry						
mo1	ECTS	CTS 10 Duration		1	1 semester	Method of grading (not) successfully completed	d Modul level	graduate			
	Course	S		P (20) Modu	le taught in: Germa						
	Method of assessment				Log (approx. 15 to 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English						

Compulsory Electiv	es (10 or 15 ECT	S credits)								
08-OCM-NAT-172-	Modern Aspect	ts of Natu	ıral Pro	duct Chemistry and	Biological Chemistr	у					
mo1	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
İ	Courses	,	S		•			·			
				/Module taught in: German or English							
	Method of asse	essment	exam	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		ces. F	Places will be allocat	ed according to the r	number of subject semest	ers; among applicant	Biochemie (Biochemistry): 20 plats with the same number of suballocated as they become availa-			
08-0CM-FM-161-	Organic Functi	onal Mat	erials								
mo1	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	<u>.</u>	S (3)		'		<u>'</u>	·			
			exam (appr Langu	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation approx. 30 minutes) Language of assessment: German and/or English							
08-HKM1-152-m01	Organo- and Biocatalysis										
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	-	S (3)	5 (3)							
	Method 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-SCM1-152-m01	Supramolecula	r Chemis	try (Ba	sics)							
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		S (3)	-							
	Method of asse	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-SCM3-152-m01	Bioorganic Che	emistry									
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	.,	S (3)								
	Method of asse	essment	exam	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 Ap	plications	of Qu	antum Chemistry				-			
	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	S		S (2)	S (2) + Ü (2)							
	Method of assessment			exam (appr	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 prox. 30 minutes) anguage of assessment: German and/or English							
08-PH-KACP-152-	Practical course of clinical-analytical Chemistry											
mo1	ECTS	5	Duration	า	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Courses	S		P (5)		•		`				
	Method	l 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							
Physical Chemistry	(25 or 3	o ECTS	credits)									
Compulsory Course	es (20 EC	TS cred	lits)									
08-PCM1a-161-	Laser S	pectros	госору									
mo1	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses				+ Ü (1) ıle taught in: Germa	an or English						
	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								
08-PCM1b-161-	Advanced Physical Chemistry (Lab)											
mo1	ECTS	5	Duratio	า	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Courses	S		P (4) Module taught in: German or English								
	Method	l of ass	essment	and a	assessment of pract	(pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each tical performance (2 to 4 random examinations) at: German and/or English						
	Additio	nal Info	rmation	Addit	ional information o	n module duration: b	lock taught lab course with app	rox. 20 working	days.			
08-PCM2-161-m01	Statisti	cal Me	chanics a	nd Rea	action Dynamics			'				
	ECTS 5 Duratio			1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses				S (2) + Ü (1) Module taught in: German or English							
	Method of assessment			prox.	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	Physical C	Chemistry (Ad	lvance	l Lab)			,					
	ECTS 5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Courses		P (4) Modu	P (4) Module taught in: German or English								
	Method of	fassessment	prese	resentation (approx. 20 minutes) anguage of assessment: German and/or English								
	Additional	l Information	Addit	Additional information on module duration: block taught lab course with approx. 20 working days.								
Compulsory Electiv	es (5 or 10	ECTS credits)									
08-PCM3-161-m01	Nanoscale	Materials										
	ECTS 5	Duratio	on	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	·		+ Ü (1) ule taught in: Germar	n or English							
	Method of	fassessment	prox.	30 minutes)	oprox. 90 minutes) or German and/or Engli	,	ndidate each (a	pprox. 20 minutes) or c) talk (ap-				
08-PCM4-161-m01	Ultrafast s	spectroscopy	and qu	nd quantum-control								
	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			S (2) + Ü (1) Module taught in: German or English								
	Method of	fassessment	prox.	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 prer	equisites	Prior	Prior completion of modules o8-PCM1a and o8-PCM1b recommended.								
08-PCM5-161-m01	Physical C	Chemistry of	Supran	olecular Assemblies	3							
	ECTS 5	Duratio	_	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			+ Ü (1) ıle taught in: Germar	n or English							
	Method of	f assessment	prox.	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-TCM4-161-m01	Quantum	Dynamics										
	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			+ Ü (2)								
	Method of	f assessment	exam (appi	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 a	nd App	lications	of Qu	antum Chemistry						
	ECTS 5	5	Duration	1	1 semester	Method of grading numerical grade		Modul level	graduate		
	Courses			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							
o8-TCM3-161-mo1	Numeric	al Met	hods and			, 3					
	ECTS 4		Duration		1 semester	Method of grading numerical grade		Modul level	graduate		
	Courses		•	S (2)	+ Ü (2)	,		•			
	Method	of asse	essment	exam (appr	ination in groups of ox. 30 minutes)	pprox. 90 to 180 minutes) or b) oral exam up to 3 candidates (approx. 15 minutes p German and/or English					
08-TCAP1-161-m01	Theoreti	cal Che	emistry -	Projec	t course quantum cl	hemistry					
	ECTS 4	5	Duration	1	1 semester	Method of grading (not) successfully co	ompleted	Modul level	graduate		
	Courses			P (5)							
	Method of assessment			presentation (approx. 30 minutes) Language of assessment: German and/or English							
	Addition	al Info	rmation	Addit	ional information on	n module duration: block taught lab cours	se with appr	ox. 20 working	days.		
08-TCAP2-161-m01	Theoretical Chemistry - Project course quantum dynamics										
	ECTS 5	5	Duration	1	1 semester	Method of grading (not) successfully co	ompleted	Modul level	graduate		
	Courses			P (5)							
	Method of assessment			presentation (approx. 30 minutes) Language of assessment: German and/or English							
	Addition	al Info	rmation	Additional information on module duration: block taught lab course with approx. 20 working days.							
o8-FU-Ma-	Material	Scienc	ce 1 (Basi	c intro	duction)						
Wi1-152-m01	ECTS 5	5	Duration	1	1 semester	Method of grading numerical grade		Modul level	undergraduate		
	Courses				+ 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) of 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-FMM-MP-161-	Lab Cour		terial Sci								
mo1	ECTS 4	5	Duration	1	1 semester	Method of grading (not) successfully co	ompleted	Modul level	graduate		
	Courses			P (8)	-,						
	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							
Master's with 1 major Che	emistry (2018))				JMU Würzburg • gener	rated 20-0kt-202	23 • exam. reg. data r	ecord 88 032 - - H 2018 page 43 / 57		

Biochemistry (25 o	r 30 ECTS cred	its)								
Compulsory Course	es (15 ECTS cre	dits)								
o8-BC-	Molecular Bio	ology for A	dvance	ed Students						
MOLMC-161-mo1	ECTS 5 Duratio			1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			+ Ü (1)						
	Method of as	,	exam (appr Lange	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-172-	Molecular Bio	ology labo	ratory	course						
mo1	ECTS 10	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses Method of as		P (5)							
	Participants a	and allo-	tion (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) Assessment offered: Once a year, winter semester Language of assessment: German and/or English Biochemie (Biochemistry) 24 places. Selection process Biochemie (Biochemistry), Bachelor's (180 ECTS credits): Should the							
	cation of plac		numb Quota appli main Chem gree ber o waitii ter pr me M with	per of applications ex a 1 (two thirds of pla age grade, places wil cant; among applica tained and places re nie (Chemistry), Mass programme Chemie f subject semesters. ng list will be mainta rocedure 1 is finished IINT-Lehramt PLUS as	sceed the number of ces): current average l be allocated by lot. nts with the same nu-allocated as they be ter's and MINT-Lehra (Chemistry) (120 ECT Among applicants wined and places re-all completely, theses is follows: Places will subject semesters, p	available places, place grade of successfully Quota 2 (one third of imber of subject seme ecome available. Master's: 6 pS credits) will be consith the same number llocated by lot as the places will be distribute allocated according	ces will be allocated according to completed modules; and places): number of subjected subjected. Selection process sidered first: Places will be of subject semesters, play become available. 2. In uted among the students ag to the number of subject subje	ording to the following quotas: nong applicants with the same ect semesters of the respective located by lot. A waiting list will be 1. Applications of Master's de- le allocated according to the num- laces will be allocated by lot. A case that there are places left af- lin the Master's degree program- lect semesters. Among applicants I be maintained and places re-al-		

Compulsory Electiv	res (10 or 15 EC	TS credits)								
08-BC-VPMM-161-	Practical cour	se "Molec	ular M	lar Machines" for advanced students							
mo1	ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		P (10)	? (10)							
	Method of ass	sessment		Log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English							
	Modules succ	essfully	o8-B0	o8-BC-MOLP							
	Additional Inf	ormation	Addit	ional information on	module duration: bl	ock taught lab course	with approx. 40 working	g days.			
08-BC-VPPD-161-	Practical cour	se "Protei	in Degr	adation in Eukaryot	es" for advanced stu	dents					
mo1	ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		P (10)								
	Method of ass	sessment		Log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English							
	Modules succ	essfully	o8-B0	o8-BC-MOLP							
	Additional Inf	ormation	Addit	ional information on	module duration: bl	ock taught lab course	with approx. 40 working	g days.			
08-BC-VPRB-161-	Practical course "RNA Biochemistry" for advanced students										
mo1	ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		P (10)	P (10)							
	Method of ass	sessment	Log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English								
	Modules succ	essfully	o8-BC-MOLP								
	Additional Inf	ormation	Additional information on module duration: block taught lab course with approx. 40 working days.								
08-BC-VPSB-161-	Practical cour	se "Struct	ural Biology" for advanced students								
mo1	ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	·	P (10)	P (10)							
	Method of ass	sessment		Log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English							
	Modules succ	essfully	o8-B0	o8-BC-MOLP							
	Additional Inf	ormation	Addit	ional information on	module duration: bl	ock taught lab course	with approx. 40 working	g days.			

08-ACM2-161-m01	Bioino	rganic C	hemistry								
	ECTS	5	Duration	n .	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		S (3) Modu	S (3) Module taught in: German or English						
	Method	d of asse	essment	exami	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-HKM1-152-m01	Organo- and Biocatalysis										
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		S (3)							
	Method	d of asse	essment	exami	ination in groups of	pprox. 45 to 90 minut up to 3 candidates (1 : German and/or Engl	5 to 30 minutes per candidat	one candidate e te)	ach (20 to 30 minutes) or c) oral		
08-OCM-NAT-172-	Moder	n Aspect	ts of Natu	ral Pro	duct Chemistry and	l Biological Chemistr	y				
mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			S /Mod	ule taught in: Germa	an 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							
	Participants and allo- cation of places			ces. P	laces will be allocat	ted according to the n	number of subject semesters;	among applican	Biochemie (Biochemistry): 20 pla- its with the same number of sub- a-allocated as they become availa-		
08-MCM3-172-m01	Drug d	esign									
	ECTS	5	Duration	1	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 (approx. 30 minutes) with discussion Language of assessment: German and/or English							
		oants an of place		22 places. 16 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. 6 places for students of the Master's degree programme Biochemie (Biochemistry): 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.2 places for students of the Master's degree programme MINT-Lehramt PLUS: 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-PH-KAC-152-	Clinical-	analyti	cal Chem	istry								
mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			V (3)	•							
	Method	of asse	ssment		written examination (approx. 120 minutes)							
	,				Language of assessment: German and/or English							
08-PH-KACP-152-					alytical Chemistry							
mo1	ECTS	5	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
ļ	Courses			P (5)								
	Method	of asse	essment	and a	ssessment of practi		o 4 random examinations)	15 minutes eacl	h, log approx. 5 to 10 pages each)			
Functional Materia	ls (25 or 3	o ECTS	credits)									
Compulsory Course	es (20 EC1	S cred	its)									
08-FMM-MP-161-	Lab Cou	rse Mat	terial Sci	ence								
mo1	ECTS	5	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Courses			P (8)								
	Method	of asse	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) arguage of assessment: German and/or English							
08-FMM-PA-161-	Project \	V ork										
mo1	ECTS	5	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Courses			P (10)				^				
	Method	of asse	essment		Log (approx. 15 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English							
08-OCM-FM-161-	Organic	Functio	onal Mate	erials								
mo1	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			S (3)								
	Method	of asse	essment	exam (appr	ination in groups of ox. 30 minutes)		approx. 15 minutes per candida		each (20 to 30 minutes) or c) oral oprox. 20 pages) or e) presentation			
o8-FU-Ma-	Material	Science	ce 1 (Basi	c intro	duction)							
Wi1-152-m01	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			V (3)	+ Ü (1)			,				
	Method	of asse	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) or examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presenta (approx. 30 minutes) Language of assessment: German and/or English									

Compulsory Elective	es (5 or 10	ECTS o	redits)									
o8-FU-Ma-	Material S	Science	e 2 (The	Mater	ial Groups)							
Wi2-152-m01	ECTS 5		Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			V (3)	+ Ü (1)							
	Method o	of asses	ssment	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) Language of assessment: German and/or English							
08-FU-NT-152-m01	Chemical	ally and bio-inspired Nanotechnology for Material Synthesis										
	ECTS 5		Duratio	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			V (4)	•			*				
	Method o	of asses	ssment	exam (appr	ination in groups of ox. 30 minutes)		approx. 15 minutes per ca		each (20 to 30 minutes) or c) oral oprox. 20 pages) or e) presentation			
o8-FU-Mo-	Molecula	r Mate	rials (Le	cture)								
MaV-152-mo1	ECTS 5		Duration	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			V (3)	+ S (1)							
	Method o	of asses	[a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or b) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e (approx. 30 minutes)] as well as talk (approx. 30 minutes), weighted 3:1 Language of assessment: German and/or English									
03-FU-PM1-152-	Polymer (Chemis	try 1 (Le	cture	and Practical Cours	e)						
mo1	ECTS 5		Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			V (2)	+ P (2)			,				
	Method o	of asses	ssment	prox. Asses Langu	5 to 10 pages each) ssment offered: Onc		ractical assignments (2 t ster		pprox. 15 minutes each, log ap- iions)			
03-FU-PM2-161-	Polymers	i II						,				
mo1	ECTS 5		Duration	 1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			S (2)	+ Ü (1)	•						
	Method o	of asses	ssment	prox.	30 minutes)	pprox. 90 minutes) o : German and/or Eng		one candidate each (a	pprox. 20 minutes) or c) talk (ap-			

08-PCM3-161-m01	Nanosc	ale Mat	terials			,		'				
	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			+ Ü (1)			*				
					lle taught in: Germ		12 1					
	Method	d of asse	essment	prox. Langi	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes) prox. 30 minutes) Language of assessment: German and/or English creditable for bonus							
08-SCM1-152-m01	Supran	molecular Chemistry (Basics)										
	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (3)	_							
	Method	d of asse	essment			(approx. 90 minutes) o nt: German and/or Engl		f one candidate each (a	pprox. 20 minutes)			
o8-ACM3-161-mo1	Solid s	tate che	mistry ar	nd inor	ganic materials			'				
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (3)								
				exam (appr Langı	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) preso (approx. 30 minutes) Language of assessment: German and/or English							
08-TCM2-161-m01	Basics	and App	olications	of Qu	antum Chemistry							
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course				+ Ü (2)							
	Method	d of asse	essment	exam (appr	ination in groups (ox. 30 minutes)		approx. 15 minutes per		each (20 to 30 minutes) or c) oral oprox. 20 pages) or e) presentation			
Homogeneous Cata	lysis (2	5 or 30 l	ECTS cred	lits)								
Compulsory Course	es (20 EC	TS cred	lits)									
08-HKM1-152-m01	Organo	- and B	iocatalys	is								
	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (3)				•				
	Method	d of asse	essment	exam	ination in groups	approx. 45 to 90 minu of up to 3 candidates (1 nt: German and/or Engl	5 to 30 minutes per ca		ach (20 to 30 minutes) or c) oral			

08-HKM2-161-m01	Advanc	ed orga	nometall	ic che	mistry and its appli	cation in homogened	ous catalysis	16	-				
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S	_	S (3) Modu	lle taught in: Germa	n or English							
	Method	l 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) Language of assessment: German and/or English								
08-HKM3AC-161-	Practica	al cours	se "Homo	geneo	eneous catalysis in Inorganic Chemistry"								
mo1	ECTS	5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Course	S		P (6) Modu	lle taught in: Germa	n or English		•					
	Method	l of ass	essment	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	l course "Homogeneous catalysis in Organic Chemistry"										
mo1	ECTS	5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Course	S		P (6) Modu	Nodule taught in: German or English								
	Method	l of ass	essment	repor Langu	report on practical course (approx. 10 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English								
Compulsory Electiv	es (5 or	10 ECTS	credits)										
08-HKM4-161-m01	Advanc	ed tran	sition me	tal che	emistry								
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S	<u>'</u>	S (3)	•	•	•	•	•				
	Method	l 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) Language of assessment: German and/or English								
08-PCM2-161-m01	Statisti	cal Me	chanics a	nd Rea	ction Dynamics			"					
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S	,		+ Ü (1) ıle taught in: Germa	n or English			-				
	Method	l of ass	essment	a) wri prox.	tten examination (a 30 minutes)			ndidate each (a	pprox. 20 minutes) or c) talk (ap-				

08-OCM-SYNT-161-	Moderi	n Synth	etic Meth	ods								
mo1	ECTS	5	Duration	1	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	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) Language of assessment: German and/or English							
08-TCM2-161-m01	Basics	and App	plications	of Qu	antum Chemistry			'				
	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (2) -	+ Ü (2)							
	Method	d of asso	essment	exam (appr	ination in groups of ox. 30 minutes)		approx. 15 minutes per candida		each (20 to 30 minutes) or c) oral prox. 20 pages) or e) presentation			
03-FU-PM1-152-	Polyme	er Chem	istry 1 (Le	cture	and Practical Course	e)		,				
mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		V (2) -	+ P (2)							
	Method	d of asso	essment	prox. Asses Langu	a) assessment and b) Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log brox. 5 to 10 pages each) and assessment of practical assignments (2 to 4 random examinations) Assessment offered: Once a year, winter semester anguage of assessment: German and/or English creditable for bonus							
Medicinal Chemist	ry (25 or	30 ECT	S credits)									
Compulsory Course	es (10 EC	TS cred	lits)									
08-MCM1-161-m01	Practic	al cours	se medicii	nal che	emistry							
	ECTS	10	Duratio	n n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course	S		P (10) Modu	le taught in: Germa							
	Method	d of asso	essment	and a	ssessment of practi		o 4 random examinations) as w		n, log approx. 5 to 10 pages each) o to 50 pages)			

Compulsory Electiv	es (15 o	r 20 EC1	S credits)							
08-MCM2a-161-	Pharm	aceutica	al/Medicii	nal Ch	emistry 1						
mo1	ECTS	5	Duration	ı	1 semester	Method of grading numerical grade	Mo	odul level	graduate		
	Course	:S		V (3)		·	•				
				exam (appr Langu	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English						
o8-MCM2b-161-	Pharm	maceutical/Medicinal Chemistry 2									
mo1	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Mo	odul level	graduate		
	Course	:S	•	V (3)	•	·			•		
			essment	exam (appr	written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) or camination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentat pprox. 30 minutes) anguage of assessment: German and/or English						
08-MCM3-172-m01	Drug d	esign							_		
	ECTS	5	Duration		1 semester	Method of grading numerical grade	Mo	odul level	graduate		
	Course			Modu	G (2) + Ü (1) Module taught in: German or English						
	Metho	d of ass	essment	Langu	presentation (approx. 30 minutes) with discussion Language of assessment: German and/or English						
		pants ar of place		the sa will b Place seme ces w	22 places. 16 places for students of the Master's degree programme Chemie (Chemistry): Places will be allocated according the same number of subject semesters; students who have chosen Medizinische Chemie (Medicinal Chemistry) as their followill be given preferential consideration. 6 places for students of the Master's degree programme Biochemie (Biochemistry 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.2 places for students of the Master's degree programme MINT-Lehramt PLUS: 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-MBC-MSP-161-		Spectro	metry and	Prote	omics						
mo1	ECTS	5	Duration		1 semester	Method of grading numerical grade	Mo	odul level	graduate		
	Course	!S			+ S (1) + P (2) lle taught in: Germa	an or English					
				to 30 to 40 Asses Langi	a) written examination (approx. 45 to 90 minutes) or b) log (20 to 30 pages) or c) oral examination of one candidate each (2 to 30 minutes) or d) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) or e) presentation (2 to 40 minutes) Assessment offered: Once a year, winter semester Language of assessment: German and/or English						
		pants ar of place		67 pla	aces.						

08-PH-KAC-152-	Clinical	-analyti	cal Chem	nistry								
mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			V (3)								
	Method	of asse	essment		written examination (approx. 120 minutes) Language of assessment: German and/or English							
08-PH-KACP-152-	Practica	al cours	e of clinic		al-analytical Chemistry							
mo1	ECTS	5	Duration	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Courses			P (5)								
	Method	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							
08-0CM-SYNT-161-	Modern	Synthe	tic Meth	ods								
mo1	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5			2) + Ü (1) dule taught in: German or English							
	Method	of asse	essment	exami (appro) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral xamination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation approx. 30 minutes) anguage of assessment: German and/or English							
08-OCM-NAT-172-	Modern	Aspects of Natural Product Chemistry and Biological Chemistry										
mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5		S /Mod	ule taught in: Germa	n or English						
	Method	of asse	ssment	exami	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							
	Particip cation o			ces. P	Master's degree programme Chemie (Chemistry): no limitation. Master's degree programme Biochemie (Biochemistry): 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 as they become availa-							
08-ACM2-161-m01	Bioinor	ganic Cl	nemistry									
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5		S (3) Modu	le taught in: German	or English						
	Method	of asse	essment	exami	nation in groups of i		5 to 30 minutes per candidate)		ach (20 to 30 minutes) or c) oral			

o8-BC-	Molecu	lar Biol	ogy for A	dvance	d Students							
MOLMC-161-mo1	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (2) -	+ Ü (1)							
	Method	d of asso	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) Language of assessment: German and/or English							
08-BC-VPSB-161-	Practic	al cours	e "Struct	ural Bi	ıral Biology" for advanced students							
mo1	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		P (10)	(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 eted	essfully	08-B0	-MOLP							
	Additio	nal Info	rmation	Addit	onal information on	module duration: bl	ock taught lab course with app	rox. 40 working	g days.			
Supramolecular Ch	emistry	(25 or 3	o ECTS ci	redits)								
Compulsory Course	s (10 EC	TS cred	its)									
08-SCM1-152-m01	Supran	nolecula	ar Chemis	try (Ba	sics)							
	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			S (3)								
	Method	hod 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										
08-SCM2-161-m01	Supran	nolecula	r Chemis	try (Pr	actical Course)							
	ECTS	5	Duration	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course	S		P (6) Modu	le taught in: Germai	n or English						
	Method	d of asso	essment	and a	ssessment of practi		4 random examinations)	15 minutes eac	h, log approx. 5 to 10 pages each)			
	Module comple	es succe eted	essfully	o8-S0	CM1							
Compulsory Electiv	es (15 o	r 20 ECT	S credits)								
08-SCM3-152-m01	Bioorga	anic Che	emistry									
	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (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) examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English								ach (20 to 30 minutes) or c) oral			
Master's with 1 major Che	emistry (201	18)					JMU Würzburg • generated 20-Okt-20	o23 • exam. reg. data i	record 88 032 - - H 2018 page 54 / 57			

08-SCM4-161-m01	Supramo	olecula	r Chemis	try (Ad	lvanced Lab)							
	ECTS	5	Duration	n .	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Courses			P (6) Modu	le taught in: Germar	n or English						
	Method	of asse	essment	presentation (approx. 20 minutes) Language of assessment: German and/or English								
	Modules complete		ssfully	08-SC	08-SCM2							
	Addition	al Info	rmation	Addit	dditional information on module duration: block taught lab course with approx. 20 working days.							
08-PCM5-161-m01	Physical	l Chem	istry of S	upram	olecular Assemblies	5						
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses				+ Ü (1) le taught in: Germar	n or English						
	Method	of asse	essment	prox.	itten examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (ap- 30 minutes) uage of assessment: German and/or English							
08-ACM2-161-m01	Bioinorg	ganic C	hemistry									
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			S (3) Modu	le taught in: Germar	n or English						
	Method	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) or 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 a	nd App	lications	ons of Quantum Chemistry								
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			S (2) -	+ Ü (2)							
	Method	of asse	essment	exam (appr	ination in groups of ox. 30 minutes)		approx. 15 minutes per candida		each (20 to 30 minutes) or c) oral oprox. 20 pages) or e) presentation			
08-OCM-FM-161-	Organic	Functio	onal Mate	erials	,							
mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			S (3)								
	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 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	Nanos	cale Ma	terials									
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	·S	Į.		+ Ü (1)	•		•				
					Module taught in: German or English							
	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 (ap-							
					prox. 30 minutes) Language of assessment: German and/or English							
					table for bonus	: German and/or Eng	1511					
Theoretical Chemis	strv (25 (or 30 EC	TS credit		table for bollas							
Compulsory Cours	•											
08-TCM2-161-m01	Basics	and Ap	plications	of Ou	antum Chemistry							
	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course			S (2)	+ Ü (2)				10			
			essment	` '		pprox. 90 to 180 min	utes) or b) oral examination	of one candidate 6	each (20 to 30 minutes) or c) oral			
	Method	u 01 uss	Coomene						prox. 20 pages) or e) presentation			
					ox. 30 minutes)							
						: German and/or Eng	ish	1				
o8-TCM3-161-mo1			thods and		amming							
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	·S		S (2)	+ Ü (2)							
	Method	d of ass	essment									
						up to 3 candidates (a	approx. 15 minutes per candi	idate) or d) log (ap	prox. 20 pages) or e) presentation			
					ox. 30 minutes)	: German and/or Eng	ich					
00 TCM / 1/4 mod	Ouent	.m. Diana		Langi	lage of assessifient	German and/or Eng	1511	1				
o8-TCM4-161-mo1		ım Dyna	_		[Mathada Camadia	da al amada	[AA = al., 1 = ., = 1	Laura di cata			
	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course			` '	+ Ü (2)							
	Method	d of ass	essment						each (20 to 30 minutes) or c) oral			
					ox. 30 minutes)	up to 3 candidates (a	approx. 15 minutes per candi	idate) or d) tog (ap	prox. 20 pages) or e) presentation			
						: German and/or Eng	ish					
Compulsory Elective	/es (10 n	r 15 ECT	S credits		<u> </u>	, 2. <u>2.1.</u>						
08-TCM1-161-m01					Chemistry							
00 10,111 101 11101	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course		Duratio	,	+ Ü (2)	method of grading	numerical grade	Modulievel	Sidducto			
			occmont			nnroy oo to 10c min	utas) or h) oral avamination	of one candidate	each (20 to 30 minutes) or c) oral			
	Method	u oi ass	essment						each (20 to 30 minutes) or c) oral prox. 20 pages) or e) presentation			
					ox. 30 minutes)	up to 5 candidates (ipprox. 15 illillates per callal	idute) of d) tog (ap	prox. 20 pages, or e, presentation			
						: German and/or Eng	ish					
Macter's with 1 major Ch		۵)					IMII Würzhurg • generated 20-Ok		ecord 8810231-1-1112018 nage 56 / 57			

Courses P (5) Method of assessment presentation (approx. 30 minutes) Language of assessment: German and/or English	graduate						
Courses P (5) Method of assessment presentation (approx. 30 minutes) Language of assessment: German and/or English							
Method of assessment presentation (approx. 30 minutes) Language of assessment: German and/or English	dave						
Language of assessment: German and/or English	daye						
Additional Information Additional information on module duration, block tought leb source with approximation of	days						
Additional Information Additional information on module duration: block taught lab course with approx. 20 working d	uays.						
08-TCAP2-161-m01 Theoretical Chemistry - Project course quantum dynamics							
ECTS 5 Duration 1 semester Method of grading (not) successfully completed Modul level	graduate						
Courses P (5)							
Method of assessment presentation (approx. 30 minutes)							
Language of assessment: German and/or English							
Additional Information Additional information on module duration: block taught lab course with approx. 20 working d	days.						
o8-MCM3-172-mo1 Drug design							
	graduate						
Courses $S(2) + \ddot{U}(1)$ Module taught in: German or English							
Method of assessment presentation (approx. 30 minutes) with discussion Language of assessment: German and/or English							
Participants and allocated by lot; a waiting list will be maintained and places re-allocated	dicinal Chemistry) as their focus me Biochemie (Biochemistry): n the same number of subject mme MINT-Lehramt PLUS: Pla- e same number of subject seme-						
Thesis (30 ECTS credits)							
08-MA-161-m01 Master-Thesis Chemistry							
ECTS 30 Duration 1 semester Method of grading numerical grade Modul level	graduate						
Courses No courses assigned to module							
Method of assessment Master's thesis (approx. 60 to 80 pages) Language of assessment: German and/or English							
other prerequisites Where applicable, specific modules as specified by supervisor.							
Additional Information Time to complete: 6 months.							