

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	Module title											
	ECTS		Duration	(in semesters)	Method of grading		Module level						
	Courses		To be spe	o 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	ssessme	ent										
	Only after su completion o		l if applica	if applicable									
	Other prereq	uisites	if applica	if applicable									
	Participants and allocation of places		ocati- if applica	if applicable									
	Additional information		on if applica	if applicable									
	Referred to in	n LPO I	if applica	if applicable (examination regulations for teaching-degree programmes)									

Compulsory Elective Students must take	three focuses	(focuses	through	gh 3 pursuant to Section 2	ction 3 Subsection 2 Septence 8 FSB	Sentence 2 FSB (subject-sp	ecific provisions))	worth 25 ECTS credits each; provi-			
Inorganic Chemisti				, =							
Compulsory Course	es (20 ECTS cre	edits)									
08-ACM1-161-m01	Advanced Inc	organic Ch	emistry	1							
	ECTS 10	Duratio			Method of grading numerical grade		Modul level	graduate			
	Courses			S (3) + S (3)							
	Method of as:	sessment	b) ora c) ora d) log e) pre	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English							
08-ACPM-161-m01	Inorganic Che	emistry pra		course for advanced		1311					
	ECTS 10	Duratio		1 semester		(not) successfully complet	ted Modul level	graduate			
	Courses		P (24) Modu	Module taught in: German or English							
	Method of as	sessment			(approx. 20 pages) a German and/or Engl	and talk (approx. 15 minute ish	s)				
	Additional Inf	formation	Additi	ional information or	module duration: bl	ock taught lab course with	approx. 40 working	g days.			
Compulsory Elective	es (5 ECTS cre	dits)									
08-ACM2-161-m01	Bioinorganic Chemistry										
	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		S (3) Modu	(3) Module taught in: German or English							
	Method of as	sessment	b) ora	a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English							
o8-ACM3-161-mo1	Solid state ch	nemistry a	nd inor	ganic materials							
	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		S (3)								
	Method of as:	sessment	b) ora c) ora d) log e) pre	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English							

08-ACMS-211-m01	Special	Special Topics in Inorganic Chemistry												
	ECTS	5	Duration	n [1 semester	Method of gradi	ng numerical grade	Modul level	graduate					
	Courses	 S		S (2) +	· Ü (1)									
	Method	of asse	ssment		a) written examination (approx. 90 to 180 minutes) or									
					o) oral examination of one candidate each (20 to 30 minutes) or) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or									
							ididates (approx. 15 minu	tes per candidate) or						
					log (approx. 20 pages) or presentation (approx. 30 minutes)									
				Langu	anguage of assessment: German and/or English									
08-HKM2-161-m01	Advanc	ed orgai	nometall	ic chen	nistry and its app	lication in homoger	eous catalysis							
	ECTS	5	Duration	1	1 semester	Method of gradi	ng numerical grade	Modul level	graduate					
	Courses	S		S (3) Modul	e taught in: Gern	nan 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										
Organic Chemistry	(25 ECTS	S credits)											
Compulsory Course	s (15 EC	TS credi	ts)											
o8-OCM-SYNT-161-	Modern	Synthe	tic Meth	ods										
m01	ECTS	5	Duration	1 [1 semester	Method of gradi	ng numerical grade	Modul level	graduate					
	Courses	S		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 Rese	arch Proj	ect Org	ganic Chemistry			,						
mo1	ECTS	10	Duration	1	1 semester	Method of gradi	ng (not) successfully cor	mpleted Modul level	graduate					
	Courses			P (20) Module taught in: German 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 E	CTS cre	dits)										
08-OCM-NAT-172-	Moder	n Aspec	ts of Natu	ral Pro	duct Chemistry an	d Biological Chemisti	у						
mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	25		S				•					
				/Mod	ule taught in: Germ	an or English							
	Metho	d of ass	essment			approx. 45 to 90 minu							
					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								
	D .: :							1 1	D: 1 : (D: 1 : ()				
		pants ar of place							Biochemie (Biochemistry): 20 pla-				
	Cation	or place	:5	iect s	es. Places will be allocated according to the number of subject semesters; among applicants with the same number of sub- ect semesters, places will be allocated by lot A waiting list will be maintained and places re-allocated as they become availa-								
				ble.	emesters, places ii	in be unocuted by tot	, watering tise with se mit	amtumed and places re	anotated as they become availa				
08-OCM-FM-161-	Organi	ic Functi											
mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	es		S (3)	-			·					
	Metho	d of ass	essment	a) wri	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								
08-0CMS-211-m01	Specia	l Topics	in Organi										
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	es		S (2) ·	+ Ü (1)								
	Metho	d of ass	essment	a) wri	tten examination (a	approx. 90 to 180 min	utes) or						
						ne candidate each (20		11.1					
					l examination in gr ; (approx. 20 pages		dates (approx. 15 minut	tes per candidate) or					
					sentation (approx.								
						t: German and/or Eng	lish						
08-HKM1-152-m01	Organo	o- and B	iocatalysi	is									
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	es		S (3)									
	Metho	d of ass	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	Supramolecular Chemistry (Basics)												
	ECTS 5	Duratio	1	1 semester	Method of gradin	g numerical grade	Modul level	graduate					
	Courses		S (3)										
	Method of ass	sessment			approx. 90 minutes)								
				b) oral examination of one candidate each (approx. 20 minutes) Language of assessment: German and/or English									
00 CCM0 450 mo4	Die erwenie Ch		Langu	age of assessmen	: German and/or En	gusu							
08-SCM3-152-m01			on 1 semester Method of grading numerical grad		- I was a wined awards	Madulland	Tarra di cata						
] 	ECTS 5	Duration		1 semester	Method of grading	g numerical grade	Modul level	graduate					
<u> </u>	Courses		S (3)	written examination (approx. 45 to 90 minutes) or									
	Method of ass	sessment			approx. 45 to 90 min ne candidate each (2								
						lidates (15 to 30 minutes per car	ndidate)						
				Language of assessment: German and/or English									
08-TCM2-161-m01	Basics and Ap	plications	of Qu	antum Chemistry									
	ECTS 5	Duratio	า	1 semester	Method of gradin	g numerical grade	Modul level	graduate					
	Courses		S (2) -	+ Ü (2)									
	Method of ass	sessment	nent a) written examination (approx. 90 to 180 minutes) or										
				b) oral examination of one candidate each (20 to 30 minutes) or									
				c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or									
			e) presentation (approx. 30 minutes)										
				Language of assessment: German and/or English									
Physical Chemistry	(25 ECTS cred	its)											
Compulsory Course	es (10 ECTS cre	dits)											
08-PCM1a-161-	Laser Spectro	SCODV											
mo1	ECTS 5	Duration	1	1 semester	Method of gradin	g numerical grade	Modul level	graduate					
	Courses		S (2) -					0					
				le taught in: Germ	an or English								
	Method of ass	sessment			approx. 90 minutes)								
					ne candidate each (a								
					t: German and/or En	glish							
08-PCM1b-161-	Advanced Phy			i									
mo1	ECTS 5	Duratio		1 semester	Method of gradin	g (not) successfully completed	Modul level	graduate					
	Courses			P (4) Module taught in: German or English									
	Method of ass	sessment	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										
	Additional Inf	ormation	Additional information on module duration: block taught lab course with approx. 20 working days.										
Master's with 1 major Ch	emistry (2018)					JMU Würzburg • generated 19-Apr-20	o25 • exam. reg. data	record 88 032 - - H 2018 page 6 / 63					

Compulsory Electiv	es (15 EC	CTS cre	dits)									
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				
	Courses	5	-		S (2) + Ü (1) Module taught in: German or English							
] 	14 - 4 b - a	l af a a a										
	Method	i or ass	essment	b) ora	l examination of or	approx. 90 minutes) or ne candidate each (approx. 20 minutes) or						
					k (approx. 30 minut lage of assessment	es) : German and/or English						
08-PCM3-161-m01	Nanosc	ale Ma	terials									
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses	5		S (2) - Modu	+ Ü (1) le taught in: Germa	n or English						
	Method	l 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	Ultrafas	st spec	troscopy	py and quantum-control								
	ECTS	5	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses	5		S (2) - Modu	+ Ü (1) le taught in: Germa	n or English						
	Method	l of ass	essment	b) ora c) talk	l examination of or (approx. 30 minut	approx. 90 minutes) or ne candidate each (approx. 20 minutes) or es) :: German and/or English						
	other pr	rerequi	sites	Prior	completion of modu	ules o8-PCM1a and o8-PCM1b recommended.						
08-PCM5-161-m01	Physica	al Chem	istry of S	upram	olecular Assemblie	s						
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses	5		S (2) - Modu	+ Ü (1) le taught in: Germa							
	Method	of ass	essment	b) ora c) talk	l examination of or (approx. 30 minut	approx. 90 minutes) or ne candidate each (approx. 20 minutes) or es) :: German and/or English						

08-PCM6-161-m01	Physica	al Chem	istry (Adv	anced	Lab)						
	ECTS	5	Duratio	1	1 semester	Method of grading (not) su	ccessfully completed	Modul level	graduate		
	Course	S		P (4) Modu	le taught in: Germar	n or English					
	Method	d of ass	essment		ntation (approx. 20	_					
					age of assessment:						
				Additional information on module duration: block taught lab course with approx. 20 working days.							
08-PCMS-211-m01			in Physic		· ·						
		5	Duratio		1 semester	Method of grading numeric	al grade	Modul level	graduate		
	Course		S (2) + Ü (1)								
	Method	d of ass	essment	b) ora c) ora d) log e) pre) written examination (approx. 90 to 180 minutes) or) oral examination of one candidate each (20 to 30 minutes) or) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or) log (approx. 20 pages) or) presentation (approx. 30 minutes) anguage of assessment: German and/or English						
08-TCM2-161-m01	Basics	and Ap	plications	of Qua	antum Chemistry						
	ECTS	5	Duratio	Duration 1 semester Method of grading numerical grade Modul level					graduate		
	Course	S		S (2) -	+ Ü (2)						
	Method	d of ass	essment	b) ora c) ora d) log e) pre	l examination of on l examination in gro (approx. 20 pages) sentation (approx. 3			andidate) or			
o8-TCM4-161-mo1	Quantu	m Dyna	amics								
	ECTS	5	Duratio	1	1 semester	Method of grading numeric	al grade	Modul level	graduate		
	Course	rses S (2) + 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							

Biochemistry (25 E	CTS credits)											
Compulsory Course	es (15 ECTS c	redits)										
o8-BC-	Molecular E	Biology for A	dvance	ed Students								
MOLMC-161-mo1	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		<u> </u>	V (2) + Ü (1)								
			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-BC-MOLP-172- mo1		Biology labo		1	Tag it to the							
	ECTS 10	Duratio	n P (5)	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
			a) written examination (approx. 45 to 90 minutes) or b) log (10 to 20 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 to 20 minutes per candidate) or e) presentation (20 to 30 minutes) or f) practical examination (on average approx. 2 hours; time to complete will vary according to subject area but will not exceed a maximum of 4 hours) Language of assessment: German and/or English Assessment offered: Once a year, winter semester									
	Participants cation of pl		Select numb averal lot. Q numb become gree plant of waiting ter prime M with the selection of the selection	per of available plac ge grade of success uota 2 (one third of per of subject semes me available. nie (Chemistry), Mas programme Chemie f subject semesters. ng list will be mainta ocedure 1 is finished IINT-Lehramt PLUS a	emie (Biochemistry), Ees, places will be alloughed mod places): number of siters, places will be a ter's and MINT-Lehra (Chemistry) (120 ECT). Among applicants wained and places read completely, theses s follows: Places will subject semesters, p	ocated according to the ules; among applicated by lot. A wait of the plus Master's: 6 S credits) will be convith the same number llocated by lot as the places will be distribe allocated according applicated according the under the places will be distribe allocated according application.	ne following quotas: Quonts with the same average he respective applicant; ting list will be maintained places. Selection processidered first: Places will of subject semesters, places among the studenting to the number of subject semesters.	nber of applications exceed the sta 1 (two thirds of places): current ge grade, places will be allocated by among applicants with the same ed and places re-allocated as they s: 1. Applications of Master's debe allocated according to the numlaces will be allocated by lot. An case that there are places left afsin the Master's degree programiect semesters. Among applicants ill be maintained and places re-al-				

Compulsory Electiv	es (10 E0	CTS cred	lits)									
08-BC-VPMM-161-	Practica	al 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	5		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							
	Additional Information			Additi	onal information on	module duration: bl	ock taught lab course	with approx. 40 working	g days.			
08-BC-VPPD-161-	Practica	al cours	e "Protei	n Degr	adation in Eukaryote	es" for advanced stu	dents	'				
mo1	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			P (10)				*				
	Method	lethod of assessment			og (approx. 20 pages) and talk (approx. 15 minutes) anguage of assessment: German and/or English							
	Modules successfully completed			08-BC	-MOLP							
	Additio	nal Info	rmation	Additi	onal 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	5		P (10)								
	Method of assessment			Log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English								
	Module comple		ssfully	o8-BC-MOLP								
	Additio	nal Info	rmation	Additional information on module duration: block taught lab course with approx. 40 working days.								
08-BC-VPSB-161-	Practica	al cours	e "Struct	ural Biology" for advanced students								
mo1	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5		P (10)				•				
	Method of assessment			Log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English								
	Modules successfully completed			o8-BC-MOLP								
	Additional Information			Additional information on module duration: block taught lab course with approx. 40 working days.								

08-BCMS-211-m01	Special	Topics	in Bioche	emistr	y			,						
	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	S		S (2)	+ Ü (1)									
	Method	d of ass	essment	b) ora c) ora d) log	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes)									
				Langi	anguage of assessment: German and/or English									
08-ACM2-161-m01	Bioinor	ganic C	hemistry											
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	S		S (3) Modu	ıle taught in: Gern	nan or English								
	Method	d of ass	essment	b) ora	a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English									
08-HKM1-152-m01	Organo	Organo- and Biocatalysis												
	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	S		S (3)										
	Method	d of ass	essment	a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English										
08-OCM-NAT-172-	Moderr	1 Aspec	ts of Natu	ral Pro	oduct Chemistry a	nd Biological Chemistr	у							
mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	S		S /Module taught in: German or English										
	Method	d of ass	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										
	Participants and allo- cation of places			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 available.										

08-MCM3-172-m01	Drug de	sign										
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	j.		S (2) - Modu	+ Ü (1) le taught in: Germ	nan or English		•				
	Method	of asse				o minutes) with discus nt: German and/or Engl						
	Participa cation o	f places		the sa will be Place seme ces w sters,	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.							
08-PH-KAC-152-			cal Chem	<u> </u>								
mo1	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5		V (3)								
					written examination (approx. 120 minutes) Language of assessment: German and/or English							
08-PH-KACP-152-	Practical course of clinical-analytical Chemistry											
mo1	ECTS 5 Duratio)	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Courses			P (5)	,	·		·				
	Method of assessment			Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical performance (2 to 4 random examinations) Language of assessment: German and/or English								
Functional Materia	ls (25 EC1	TS credi	ts)									
Compulsory Course	es (20 EC	TS credi	ts)									
08-FMM-MP-161-	Lab Cou	rse Mat	erial Sci	ence								
mo1	ECTS	5	Duration)	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Courses	5		P (8)								
	Method	of asse		and a	ssessment of prac		4 random examinations)	. 15 minutes eacl	n, log approx. 5 to 10 pages each)			
08-FMM-PA-161-	Project \	Work										
mo1	ECTS	5	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Courses	5		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-	Organio	Organic Functional Materials												
mo1	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses	S		S (3)	_									
	Method	of asse	essment			(approx. 90 to 180 min								
					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	al Scien	ce 1 (Basi	c intro	duction)				_					
Wi1-152-m01	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Courses	S		V (3)	+ Ü (1)									
	Method	l of asse	essment			(approx. 90 to 180 min								
						ne candidate each (20		itas mar sandidata) ar						
				c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or										
				e) presentation (approx. 30 minutes)										
				Langu	uage of assessmer	nt: German and/or Eng	lish							
Compulsory Elective	es (5 EC	TS credi	its)											
o8-FU-Ma-	Material Science 2 (The Material Groups)													
Wi2-152-m01	ECTS 5 Duratio			1	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Courses			V (3)										
	Method	l of asse	essment	a) written examination (approx. 90 to 180 minutes) or										
				b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or										
					(approx. 20 page		uates (approx. 15 illilit	ates per candidate) of						
				e) pre	sentation (approx	. 30 minutes)								
				Language of assessment: German and/or English										
08-FU-NT-152-m01						r Material Synthesis	_							
		5	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Courses			V (4)		,		,						
	Method	l of asse	essment	a) written examination (approx. 90 to 180 minutes) or										
				b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or										
				d) log (approx. 20 pages) or										
				e) presentation (approx. 30 minutes)										
				Language of assessment: German and/or English										

o8-FU-Mo-	Molecular Materials (Lecture)										
MaV-152-mo1	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V (3) ·	+ S (1)	•		•				
	Method of	assessment						each (20 to 30 minutes) or c) oral			
						approx. 15 minutes per 30 minutes), weighted		prox. 20 pages) or e) presentation			
					well as talk (approx. : German and/or Eng		3:1				
03-FU-PM1-152-	Polymer Chemistry 1 (Lecture and Practical Course)										
mo1	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V (2)	+ P (2)			•				
	Method of	assessment	prox. Langu Asses	a) assessment and b) Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical assignments (2 to 4 random examinations) Language of assessment: German and/or English Assessment offered: Once a year, winter semester creditable for bonus							
03-FU-PM2-161-	Polymers I	I									
mo1	ECTS 5	Duratio	,	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		S (2)	+ Ü (1)							
		assessment 	b) ora c) tall Langu	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes) Language of assessment: German and/or English							
08-FMMS-211-m01	Special Topics in the Field of Functional Materials										
	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	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) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or							
			d) log	(approx. 20 pages)	or	acco (approxi 1) illinui	tes per carraracte, or				
				sentation (approx. 3		!! _ I.					
08-PCM3-161-m01	Nanossala	Materials	Langu	lage of assessment:	German and/or Eng	lisn					
06-PCM3-161-11101	ECTS 5	Duratio	n	1 semester	Method of grading	numorical grado	Modul level	graduate			
	Courses	Duratio		+ Ü (1)	Method of grading	Hulliencal grade	Modulitevel	graduate			
	Courses			le taught in: Germar	n or English						
	Method of assessment										

08-SCM1-152-m01	Supran	nolecul	ar Chemis	try (Ba	asics)							
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S	·	S (3)			,					
	Method	d of ass	essment	a) wri	a) written examination (approx. 90 minutes) or							
						ne candidate each (approx. 20 minutes)						
						: German and/or English						
08-ACM3-161-m01					l inorganic materials							
	ECTS	5	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate				
	Course		,	S (3)	_							
	Method of assessment			b) ora c) ora d) log	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or							
				e) pre Langu) presentation (approx. 30 minutes) anguage of assessment: German and/or English							
Homogeneous Cata	Homogeneous Catalysis (25 ECTS credits)											
Compulsory Course	es (20 EC	CTS cree	dits)									
08-HKM1-152-m01	Organo- and Biocatalysis											
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	s 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-HKM2-161-m01	Advanc	ed orga	anometall	ic che	ic chemistry and its application in homogeneous catalysis							
	ECTS	5	Duration	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		S (3) Modu	ıle taught in: Germa	n 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-	Practica	Practical course "Homogeneous catalysis in Inorganic Chemistry"										
mo1	ECTS	5 Dura	ion	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Courses			P (6) Module taught in: German or English								
	Method of assessment			report on practical course (approx. 10 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English								
o8-HKM3OC-161-	Practica	al course "Ho	rse "Homogeneous catalysis in Organic Chemistry"									
mo1	ECTS	5 Dura		1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Courses	S	P (6 Mod	P (6) Module taught in: German or English								
	Method	l of assessme			e (approx. 10 pages) ar t: German and/or Engli	nd talk (approx. 15 minutes) sh						
Compulsory Electiv	es (5 EC	TS credits)										
o8-HKM4-161-mo1	Advanc	ed transition	metal cl	nemistry								
	ECTS	5 Dura	ion	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	5	S (3)			•					
08-HKMS-211-m01	Special		b) o c) o d) lo e) p Lan nogene									
	Courses	5	S (2) + Ü (1)								
			b) o c) o d) lo e) p Lan	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				eaction Dynamics								
	ECTS	5 Dura		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	5	Mòd	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								

08-OCM-SYNT-161-	8-OCM-SYNT-161- Modern Synthetic Methods										
mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	S			S (2) + Ü (1) Module taught in: German or English						
				b) ora c) ora d) log e) pre	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English						
08-TCM2-161-m01	Basics	and App	olications	of Quantum Chemistry							
	ECTS 5 Duration				1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses				+ Ü (2)						
				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-		Polymer Chemistry 1 (Lecture and Practical Course)									
mo1	ECTS 5 Duratio				1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			V (2) + P (2)							
	Method of assessment			a) assessment and b) Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical assignments (2 to 4 random examinations) Language of assessment: German and/or English Assessment offered: Once a year, winter semester creditable for bonus							
Medicinal Chemist	ry (25 EC	y (25 ECTS credits)									
Compulsory Course	es (15 EC	TS cred	its)								
08-MCM1-161-m01	Practica	al cours	e medicir	al che	emistry						
	ECTS	10	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Courses	S		P (10) 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) 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							

	1		_									
08-MCM3-172-m01												
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	es.			+ Ü (1) ule taught in: Germa	n or English						
	Matha	d of occ	essment						_			
				Lang	presentation (approx. 30 minutes) with discussion Language of assessment: German and/or English							
		pants a of placε	nd allo- es	22 places. 16 places for students of the Master's degree programme Chemie (Chemistry): Places will be allocated acceptable the same number of subject semesters; students who have chosen Medizinische Chemie (Medicinal Chemistry) as the will be given preferential consideration. 6 places for students of the Master's degree programme Biochemie (Biochem Places will be allocated according to the number of subject semesters; among applicants with the same number of subject semiliates will be allocated by lot.2 places for students of the Master's degree programme MINT-Lehramt PLU ces will be allocated according to the number of subject semesters; among applicants with the same number of subjects, places will be allocated by lot; a waiting list will be maintained and places re-allocated by lot as they become a					edicinal Chemistry) as their focus nme Biochemie (Biochemistry): th the same number of subject amme MINT-Lehramt PLUS: Pla- the same number of subject seme-			
Compulsory Course	es (10 E(CTS cred	dits)									
o8-MCM2a-161-	Pharm	aceutic	al/Medici	nal Ch	emistry 1							
mo1	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	!S	•	V (3)								
				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-	Pharmaceutical/Medicinal Chemistry 2											
mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	25		V (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-MCMS-211-m01		l Topics	in Medic	inal C	hemistry							
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses				+ Ü (1)							
	Metho	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								
Master's with 1 major Ch	emistry (2018) IMU Würzburg • generated 19-Apr-2025 • exam. reg. data record 88 032 - - H 2018 page 18 / 63											

o8-MBC-MSP-161-	Mass-Spectrometry and Proteomics										
mo1		5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	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) Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered, no less than once a year							
	Particip cation o			67 places.							
Supramolecular Ch	emistry	(25 ECT	S credits)							
Compulsory Course	es (10 EC	TS cred	lits)								
08-SCM1-152-m01	Supram	ramolecular Chemistry (Basics)									
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	S		S (3)							
	Method of assessment			b) ora	ıl examination of oı	approx. 90 minutes) or ne candidate each (ap _l :: German and/or Engli	orox. 20 minutes)				
08-SCM2-161-m01	Supram	nolecula	ar Chemis	stry (Practical Course)							
	ECTS	5	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Courses	S		P (6) Modu	P (6) Module taught in: German or English						
	Method	d of ass	essment	and a	ssessment of pract		4 random examinations)	15 minutes eac	h, log approx. 5 to 10 pages each)		
	Module comple		essfully	o8-S0	CM1						
Compulsory Electiv	es (15 EC	CTS cre	dits)								
08-SCM3-152-m01		anic Ch	emistry								
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			S (3)	-						
	Method 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	Supramolecular Chemistry (Advanced Lab)											
	ECTS	5	Duration	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Courses	S		P (6) Modu	P (6) Module taught in: German or English							
	Method of assessment				presentation (approx. 20 minutes) Language of assessment: German and/or English							
	Modules successfully completed			08-S0	08-SCM2							
	Additio	nal Info	rmation	Addit	Additional information on module duration: block taught lab course with approx. 20 working days.							
08-SCMS-211-m01	<u> </u>	l Topics	in Supra	molecu	olecular Chemistry							
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	S		S (2) ·	+ Ü (1)							
				c) ora d) log e) pre	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-PCM5-161-m01	Physica	al Chem	istry of S	upram	upramolecular Assemblies							
	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	S		S (2) · Modu	+ Ü (1) Ile taught in: Germa	n or English						
	Method	l of ass	essment	b) ora c) tall	al examination of on k (approx. 30 minute	pprox. 90 minutes) o e candidate each (ap es) : German and/or Engl	prox. 20 minutes) or					
08-ACM2-161-m01	Bioinor	rganic C	hemistry									
	ECTS	5	Duration		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-TCM2-161-m01	Basics and Applications of Quantum Chemistry											
	ECTS	5	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	S		S (2)	+ Ü (2)			•				
	Method	of ass	essment			(approx. 90 to 180 min						
						one candidate each (2c groups of up to 3 candid		toc nor candidata) or				
					(approx. 20 page		iales (applox. 15 illillu	tes per candidate) of				
				e) pre	sentation (appro	x. 30 minutes)						
	Language of assessment: German and/or English Organic Functional Materials											
08-0CM-FM-161- mo1					Т	1						
11101		5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			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	f) log (approx. 20 pages) or							
					sentation (appro	x. 30 minutes) nt: German and/or Eng	lich					
08-PCM3-161-m01	Nanosc	alo Mai	torials	Lange		iii: Geriiiaii aiiu/oi Eiig	11511	-				
00-PCM3-101-11101			Duration	1	1 semester	Method of grading	numorical grado	Modul level	graduate			
	ECTS 5 Duration					5 (2) + Ü (1)						
	Course	3			Module taught in: German or English							
	Method	d of asso	essment			(approx. 90 minutes) o			-			
					b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes)							
						nt: German and/or Eng	lish					
				credit	able for bonus							
Theoretical Chemis	try (25 E	CTS cre	edits)									
Compulsory Course	s (15 EC	TS cred	its)									
08-TCM2-161-m01	Basics	and App	plications	of Qu	antum Chemistry							
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	S		S (2)	+ Ü (2)							
	Method	d of asso	essment	a) wri	tten examination	(approx. 90 to 180 min	utes) 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)								
				Langu	Language of assessment: German and/or English							

an TCMa account	01 Numerical Methods and Programming										
08-1CM3-161-m01			1		1		1				
	ECTS	5	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		S (2) -	S (2) + Ü (2)						
	Method	d of ass	essment		a) written examination (approx. 90 to 180 minutes) or						
					o) oral examination of one candidate each (20 to 30 minutes) or) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or) log (approx. 20 pages) or						
				c) ora							
				e) pre) presentation (approx. 30 minutes)						
				Langu	anguage of assessment: German and/or English						
08-TCM4-161-m01	Quantu	ım Dyna	amics								
	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	essment a) written examination (approx. 90 to 180 minutes) or							
						e candidate each (20 to 30 minutes) or	andidata) 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)						
						German and/or English					
Compulsory Electiv	es (10 E	CTS cre	dits)								
08-TCM1-161-m01	Selecte	ed Topic	s in Theo	retical	Chemistry						
	ECTS	5 Duration 1 semester Method of grading numerical grade Modul level					graduate				
	Course	S		S (2) -	+ Ü (2)						
	Method	d of ass	essment	a) wri	tten examination (a	oprox. 90 to 180 minutes) or					
						e candidate each (20 to 30 minutes) or					
					i examination in gro (approx. 20 pages)	ups of up to 3 candidates (approx. 15 minutes per c	andidate) or				
					sentation (approx. 3						
						German and/or English					
08-TCAP1-161-m01	Theore	tical Ch	ical Chemistry - Project course quantum chemistry								
	ECTS	5	Duratio	tion 1 semester Method of grading (not) successfully completed Modul level graduate							
	Course	S		P (5)							
	Method	d of ass	essment	presentation (approx. 30 minutes)							
	į į			Language of assessment: German and/or English							
	Additional Information			Additional information on module duration: block taught lab course with approx. 20 working days.							

08-TCAP2-161-m01	O1 Theoretical Chemistry - Project course quantum dynamics											
	ECTS	5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course	S		P (5)								
	Method	of ass	essment	prese	ntation (approx. 30	minutes)						
				Langu	nguage 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-TCMS-211-m01	Special	Topics	in Theore	etical C	Chemistry			'				
	ECTS 5 Duration				1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			S (2) -	(2) + Ü (1)							
	Method	of ass	essment	a) wri	tten examination (a	pprox. 90 to 180 minı	utes) or					
		b) oral examination of one candidate each (20 to 30 minutes) or										
					ral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or							
					log (approx. 20 pages) or							
					sentation (approx. 3							
				Langu	anguage of assessment: German and/or English							
08-MCM3-172-m01	Drug de	esign										
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	5		S (2) -								
				Modu	le taught in: Germai	n or English						
	Method	d of ass	essment			minutes) with discus						
						German and/or Engl						
	Particip								aces will be allocated according to			
	cation	of place	!S		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: Pla-							
					ces 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.							
				sters,	places will be alloc	ated by for; a Walting	i isi wili be mamiamed and pia	aces re-allocate	u by for as they become available.			

Additional qualifications (15 ECTS credits) **Subfield Additional qualifications Compulsory Electives Focuses (5 ECTS credits)** In the sub-area "Zusätzliche Kompetenzen aus den Schwerpunkten" ("Additional Skills from the Focus Area"), students may use a module of their choice from the Focus area that they are not using in the area of mandatory electives 1. Molecular Biology laboratory course 08-BC-MOLP-172mo1 **ECTS** 10 Duration 1 semester Method of grading | numerical grade Modul level undergraduate Courses P (5) Method of assessment | a) written examination (approx. 45 to 90 minutes) or b) log (10 to 20 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 to 20 minutes per candidate) or e) presentation (20 to 30 minutes) or f) practical examination (on average approx. 2 hours; time to complete will vary according to subject area but will not exceed a maximum of 4 hours) Language of assessment: German and/or English Assessment offered: Once a year, winter semester Participants and allo-Biochemie (Biochemistry) 24 places. Selection process Biochemie (Biochemistry), Bachelor's (180 ECTS credits): Should the number of applications exceed the cation of places number of available places, places will be allocated according to the following quotas: Quota 1 (two thirds of places): current average grade of successfully completed modules; among applicants with the same average grade, places will be allocated by lot. Quota 2 (one third of places): number of subject semesters of the respective applicant; among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated as they become available. Chemie (Chemistry), Master's and MINT-Lehramt PLUS Master's: 6 places. Selection process: 1. Applications of Master's degree programme Chemie (Chemistry) (120 ECTS credits) will be considered first: 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. 2. In case that there are places left after procedure 1 is finished completely, theses places will be distributed among the students in the Master's degree programme MINT-Lehramt PLUS as follows: Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available.

08-HKM1-152-m01	Organo	- and I

1	Organo	Organo- and Biocatalysis											
	ECTS	5	Duration	า	1 semester	graduate							
	Courses	5		S (3)									
	Method	l of asse		b) ora c) ora	tten examination (ap l examination of one l examination in grou lage of assessment:	candidate each (20 ups of up to 3 candic	to 30 minutes) or lates (15 to 30 minutes per cand	lidate)					

08-MCM3-172-m01	Drug de	esign			-	,						
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S	•		+ Ü (1)							
					le taught in: Germa							
	Method	d of ass	essment	Langu	presentation (approx. 30 minutes) with discussion Language of assessment: German and/or English							
	Particip cation (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.								
08-PH-KAC-152-	Clinica	l-analyt	ical Chem	istry								
m01	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (3)								
	Method	d of ass	essment		written examination (approx. 120 minutes) Language of assessment: German and/or English							
08-PH-KACP-152-	Practic	al cours	se of clinic	al-ana	alytical Chemistry							
mo1	ECTS 5 Duratio			1	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Course			P (5)								
	Method of assessment			Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical performance (2 to 4 random examinations) Language of assessment: German and/or English								
08-SCM3-152-m01	Bioorga	anic Ch	emistry									
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (3)	_							
	Method of assessment			b) ora	a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English							
08-SCM1-152-m01	Supran	nolecul	ar Chemis	try (Ba	sics)							
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (3)								
	Method	d of ass	essment	b) ora	al examination of on	pprox. 90 minutes) o e candidate each (ap : German and/or Eng	prox. 20 minutes)					

o8-FU-Mo-	Molecu	Molecular Materials (Lecture)											
MaV-152-mo1	ECTS	5	Duratio	1	1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Course	S		V (3) ·	V(3) + S(1)								
	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)] as well as talk (approx. 30 minutes), weighted 3:1 Language of assessment: German and/or English									
08-FU-NT-152-m01	Chemic	Chemically and bio-inspired Nanotechnology for Material Synthesis											
	ECTS	5	Duration	n	1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Course	S		V (4)	,	·							
	Method	d of ass	essment	b) ora c) ora d) log e) pre	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English								
o8-FU-Ma-	Material Science 1 (Basic introduction)												
Wi1-152-mo1	ECTS 5 Duration			า	1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Courses			V (3) ·	+ Ü (1)								
	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									
o8-FU-Ma-	Materia	al Scien	ce 2 (The	Mater	ial Groups)								
Wi2-152-m01	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Course	S		V (3) ·	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-	Polymer Chemistry 1 (Lecture and Practical Course)												
mo1	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	undergraduate					
	Course	S	·	V (2)	+ P (2)		,						
	Method of assessment Laser Spectroscopy			prox. Langu Asses	a) assessment and b) Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical assignments (2 to 4 random examinations) Language of assessment: German and/or English Assessment offered: Once a year, winter semester Exceditable for bonus								
o8-PCM1a-161-	Laser S	pectros	сору				'						
mo1	ECTS 5 Duration			n	1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses				+ Ü (1) ıle taught in: Germ	an or English							
	Method of assessment			b) ora) written examination (approx. 90 minutes) or) oral examination of one candidate each (approx. 20 minutes) anguage of assessment: German and/or English								
o8-PCM1b-161-	Advanc	ed Phy	sical Che	mistry	(Lab)		,						
mo1	ECTS	5	Duratio	1	1 semester	Method of grading (not) successfully complete	d Modul level	graduate					
	Course	S		P (4) Modu	ıle taught in: Germ	an or English							
	Method of assessment			and a	Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical performance (2 to 4 random examinations) Language of assessment: German and/or English								
	Additio	nal Info	rmation	Addit	Additional information on module duration: block taught lab course with approx. 20 working days.								
08-PCM2-161-m01	Statist	ical Me	chanics a	nd Rea	ction 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	d of ass	essment	b) ora c) tall	al examination of c k (approx. 30 minu	(approx. 90 minutes) or one candidate each (approx. 20 minutes) or otes) ot: German and/or English							
08-PCM3-161-m01	Nanoso	ale Ma	terials										
	ECTS	5	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	S		S (2) + 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 spect	roscopy a	and qua	antum-control				-			
·	ECTS	5	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	S		S (2) + Modu	- + Ü (1) le taught in: German	n or English						
	Method	l of asse	essment	b) ora c) talk Langu) written examination (approx. 90 minutes) or) oral examination of one candidate each (approx. 20 minutes) or) talk (approx. 30 minutes) anguage of assessment: German and/or English							
		rerequis					3-PCM1b recommended.					
08-PCM5-161-m01		al Chem	 		pramolecular Assemblies							
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	S			2) + Ü (1) dule taught in: German or English							
	Method	l of asse	essment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes) Language of assessment: German and/or English								
08-PCM6-161-m01	Physica	al Chem	istry (Adv	anced	Lab)			'				
	ECTS	5	Duration	ı	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Courses	S		P (4) Modu	le taught in: German	n or English						
				presentation (approx. 20 minutes) Language of assessment: German and/or English								
				Additi	onal information on	module duration: bl	ock taught lab course with app	rox. 20 working	days.			
08-TCM2-161-m01				of Qua	antum Chemistry							
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		S (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	Numerical N	Numerical Methods and Programming											
	ECTS 5	Duration	1 semester	Method of grading numerical grade	Modul level	graduate							
	Courses		S (2) + Ü (2)										
	Method of a	ssessment	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English										
08-TCM4-161-m01	Quantum Dy	namics			'								
	ECTS 5	Duration	1 semester	Method of grading numerical grade	Modul level	graduate							
	Courses		S (2) + Ü (2)										
	Method of a	ssessment		n (approx. 90 to 180 minutes) or									
				one candidate each (20 to 30 minutes) or	11.1.1								
			d) log (approx. 20 pag	groups of up to 3 candidates (approx. 15 minutes) or	s per candidate) or								
			e) presentation (appro										
				anguage of assessment: German and/or English									
08-TCM1-161-m01	Selected To	pics in Theo	retical Chemistry		'								
	ECTS 5	Duration	1 semester	Method of grading numerical grade	Modul level	graduate							
	Courses	`	S (2) + Ü (2)	·									
	Method of a	ssessment	a) written examination (approx. 90 to 180 minutes) or										
			b) oral examination of one candidate each (20 to 30 minutes) or										
			c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or										
			e) presentation (approx. 30 minutes)										
			Language of assessment: German and/or English										
08-TCAP1-161-m01	Theoretical Chemistry - Project course quantum chemistry												
	ECTS 5	Duration	1 semester	Method of grading (not) successfully comp	oleted Modul level	graduate							
	Courses		P (5)										
	Method of a	ssessment	presentation (approx. 30 minutes)										
		,		ent: German and/or English									
	Additional Ir			n on module duration: block taught lab course wi	th approx. 20 working	g days.							
08-TCAP2-161-m01			Project course quantu	-									
	ECTS 5	Duration		Method of grading (not) successfully comp	oleted Modul level	graduate							
	Courses		P (5)			_							
	Method of a	ssessment	presentation (approx. 30 minutes)										
				Language of assessment: German and/or English									
	Additional Ir	ntormation	Additional information	n on module duration: block taught lab course wi	th approx. 20 working	g days.							

08-ACM1-161-m01	Advanc	ed Inor	ganic Che	emistry	nistry								
	ECTS	10	Duration	n	2 semester	Method of grading numerical grade	Modul level	graduate					
	Course	S		S (3) -	+ S (3)								
	Method	d of ass	essment	b) ora c) ora d) log e) pre) written examination (approx. 90 to 180 minutes) or) oral examination of one candidate each (20 to 30 minutes) or) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or) log (approx. 20 pages) or) presentation (approx. 30 minutes) anguage of assessment: German and/or English								
08-ACPM-161-m01	Inorgar	nic Cher	mistry pra	ctical	course for advanced								
	ECTS	10	Duration	n	1 semester	Method of grading (not) successfully completed	Modul level	graduate					
	Course	S		P (24) Modu	le taught in: Germa								
	Method	d of ass	essment		t on practical course lage of assessment:								
	Additio	nal Info	rmation	Addit	ional information or	module duration: block taught lab course with app	rox. 40 working	days.					
08-ACM2-161-m01		ganic C	hemistry										
	ECTS	5	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	S		S (3) Modu	le taught in: Germa	n or English							
	Method of assessment			a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English									
08-ACM3-161-m01	Solid st	tate che	emistry ar	nd inor	ganic materials								
	ECTS 5 Duratio				1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses Method of assessment			S (3)	-								
				b) ora c) ora d) log e) pre	tten examination (a al examination of on l examination in gro (approx. 20 pages) esentation (approx. 2 age of assessment								

08-OCM-SYNT-161-	Modern	Synthe	etic Meth	thods								
mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	S		S (2) - Modu	+ Ü (1) le taught in: Germaı	n or English						
	Method	l of asse		b) ora c) ora d) log e) pre	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English							
	Advanc	ed Rese	arch Proj	ect Organic Chemistry								
mo1	ECTS	10	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Courses	S		P (20) Modu	(20) Module taught in: German or English							
				Langu	og (approx. 15 to 20 pages) and talk (approx. 15 minutes) anguage of assessment: German and/or English							
08-OCM-NAT-172-	Modern	Aspect	s of Natu	ral Pro	duct Chemistry and	l Biological Chemistr	у					
mo1	ECTS 5 Duration			1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses				ule taught in: Germa							
	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								
	Particip cation o			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 available.								
08-OCM-FM-161-		c Functi	onal Mate	erials								
mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			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								

o8-BC-	Molecu	lar Biol	ogy for A	dvance	d Students			-					
MOLMC-161-mo1	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	5		V (2) -	+ Ü (1)			*					
				b) ora c) ora d) log e) pre Langu	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English								
o8-BC-VPMM-161-	Practica	al cours	e "Molec	ular M	achines" for advanc	ed students							
mo1	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	S		P (10)									
	Method	l of asse	essment		g (approx. 20 pages) and talk (approx. 15 minutes) nguage of assessment: German and/or English								
	Modules successfully completed			08-BC	-MOLP								
	Additio	nal Info	rmation	Additi	onal information on	module duration: bl	ock taught lab course v	with approx. 40 working	days.				
o8-BC-VPPD-161-	Practical course "Protein Degradation in Eukaryotes" for advanced students												
mo1	ECTS	10	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		_	P (10)									
	Method of assessment			Log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English									
	Modules successfully completed Additional Information B-BC-VPRB-161- Practical course "RNA B			08-BC	o8-BC-MOLP								
				Additi	ional information on	module duration: bl	ock taught lab course v	with approx. 40 working	g days.				
08-BC-VPRB-161-				iochen	nistry" for advanced	students							
mo1	ECTS	10	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	S		P (10)									
	Method of assessment			Log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English									
	Modules successfully completed			o8-BC-MOLP									
	Additio	Additional Information			Additional information on module duration: block taught lab course with approx. 40 working days.								

08-BC-VPSB-161-	Practica	al cours	e "Struct	ural Bi	ology" for advanced	students						
mo1	ECTS	10	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5		P (10)								
	Method	of asse	essment			nd talk (approx. 15 mi						
						German and/or Engl	ish	,				
	Module comple		ssfully	o8-BC	p8-BC-MOLP							
	Additio	nal Info	rmation	Additi	Additional information on module duration: block taught lab course with approx. 40 working days.							
08-FMM-MP-161-	Lab Cou	ırse Ma	terial Sci	ence		,						
mo1	ECTS 5 Duration			า	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Courses	Courses				•						
	Method	of asse	essment	and a	estate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) assessment of practical performance (2 to 4 random examinations) guage of assessment: German and/or English							
08-FMM-PA-161-	Project	Work				,						
mo1	ECTS	5	Duration	า	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Courses			P (10)		•						
	Method	of asse	essment		Log (approx. 15 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English							
03-FU-PM2-161-	Polyme	rs II										
mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5		S (2) +	+ Ü (1)			•				
	Method of assessment			b) ora c) talk Langu	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes) Language of assessment: German and/or English							
08-HKM2-161-m01	Advanc	ed orga	nometall	ic cher	nistry and its applic	ation in homogeneo	us catalysis					
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses Method of assessment			S (3) Modu	le taught in: Germar	n or English						
			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-HKM3AC-161-	Practic	al cours	se "Homo	geneo	us catalysis in Inorg	anic Chemistry"						
mo1	ECTS	5	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course	S		P (6)								
					Module taught in: German or English							
	Method	d of ass	essment	report Langu	eport on practical course (approx. 10 pages) and talk (approx. 15 minutes) anguage of assessment: German and/or English							
o8-HKM3OC-161-	Practic	al cours	se "Homo	geneo	neous catalysis in Organic Chemistry"							
mo1	ECTS 5 Duration			1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Courses			P (6) Modu	le taught in: Germa	n or English						
	Method	d of ass	essment		t on practical course lage of assessment:		and talk (approx. 15 minutes) glish					
o8-HKM4-161-mo1	Advanc	ed tran	sition me	tal che	mistry							
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (3)								
				c) ora d) log e) pre	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	Practic	ractical course medicinal chemistry										
	ECTS	10	Duration	า	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course	S		P (10) Modu	le taught in: Germa	n or English						
	Method	d of ass	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 assignments (2 to 4 random examinations) as well as report (30 to 50 pages) Language of assessment: German and/or English									
o8-MCM2a-161-	Pharma	aceutica	al/Medici	nal Che	emistry 1							
mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		V (3)	V (3)							
	Method of assessment			b) ora c) ora d) log e) pre	tten examination (approx. 90 to 180 minutes) or l examination of one candidate each (20 to 30 minutes) or l examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or (approx. 20 pages) or sentation (approx. 30 minutes) age of assessment: German and/or English							

08-MCM2b-161-	Pharma	aceutica	al/Medicii	nal Chemistry 2									
mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		V (3)		`		•					
	Method	d of asso	essment	a) written examination (approx. 90 to 180 minutes) or									
				b) ora	o) oral examination of one candidate each (20 to 30 minutes) or								
					c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English Proteomics								
08-MBC-MSP-161-	Mass-S	pectror	metry and										
mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		V (2) +	+ S (1) + P (2)	•		•					
				Modu	le taught in: Gern	nan or English							
	Method	d of asso	essment			(approx. 45 to 90 min	utes) 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)									
						nt: German and/or Eng	glish						
				Asses	sment offered: In	the semester in which	the course is offered, no less t	than once a year	<u>r</u>				
	Participants and allo- cation of places			67 pla	ices.								
08-SCM2-161-m01	Supramolecular Chemistry (Practical Course)												
	ECTS 5 Duratio			1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Courses			P (6) Module taught in: German or English									
	Method of assessment				ssessment of pra		to 4 random examinations)	15 minutes eac	h, log approx. 5 to 10 pages each)				
	Modules successfully completed			08-SCM1									
08-SCM4-161-m01	Supran	nolecula	ar Chemis	stry (Advanced Lab)									
	ECTS	5	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Courses			P (6) Module taught in: German or English									
	Method	d of asso	essment		ntation (approx. 2 lage of assessme	o minutes) nt: German and/or Eng	glish						
	Modules successfully completed			08-SCM2									
	Additional Information			Additi	ional information	on module duration: l	lock taught lab course with ap	prox. 20 working	g days.				

08-ACMS-211-m01	Special	Topics i	n Inorga	nic Ch	ic Chemistry									
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses			S (2)	+ Ü (1)	•	•		·					
	Method	of asse	ssment	a) wr	a) written examination (approx. 90 to 180 minutes) or									
						ne candidate each (20								
					oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or									
					log (approx. 20 pages) or presentation (approx. 30 minutes)									
					anguage of assessment: German and/or English									
08-BCMS-211-m01	Special	Topics i	n Bioche	mistr	y									
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses	S		S (2)	+ Ü (1)		•	•						
	Method	of asse	ssment		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										
					presentation (approx. 30 minutes)									
					Language of assessment: German and/or English									
08-HKMS-211-m01	Special	Topics i	n Homos	geneous Catalysis										
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses	S		S (2)	+ Ü (1)									
	Method	l of asse	ssment		a) written examination (approx. 90 to 180 minutes) or									
						one candidate each (20		(
					g (approx. 20 page:		dates (approx. 15 minu	ites per candidate) of						
					esentation (approx									
			Language of assessment: German and/or English											
08-MCMS-211-m01	Special	Topics i	n Medic	nal Cl	nemistry									
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses	S		S (2)	+ Ü (1)									
	Method	l of asse	ssment	a) wr	itten examination ((approx. 90 to 180 mir	utes) or							
					o) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or									
				-)			dakaa (a.a.u.u							
							dates (approx. 15 minu	tes per candidate) or						
				d) log	al examination in g g (approx. 20 page: esentation (approx	s) or	dates (approx. 15 minu	tes per candidate) or						

08-0CMS-211-m01	Special	Topics ir	n Organi	c Che	mistry			·					
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	S		S (2) ·	+ Ü (1)	•							
	Method	l of asses		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)									
O DCMC	6 1				anguage of assessment: German and/or English								
08-PCMS-211-m01								1					
			Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses				+ Ü (1)	/			_				
	Method	TOT asses		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-SCMS-211-m01	Special	Topics in	n Supran	nolecı	ılar Chemistry								
	ECTS	TS 5 Duratio			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-TCMS-211-m01	Special	Topics in	n Theore	tical (Chemistry								
	ECTS	5	Duration		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-FMMS-211-m01	Specia	l Tonics	in the Fig	ld of F	 unctional Materia	ıls					
00 11111101	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course			S (2) +	- Ü (1)	, ,	,	ļ	10		
	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							
Subfield Other add	itional q	_l ualifica	ations (10	ECTS c	redits)						
08-WRM1-161-m01		g 1 (pra									
	ECTS	5	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Course			T (3)							
	Method	d of ass	essment			paration of status and/ nt: German and/or Eng	or wrap-up reports, approx. 10 ish	oo hours total)			
	other p	rerequi	sites			e activities performed an the tutorial held in r		ntract for this mo	dule. The tutorial must accompa-		
08-WRM2-161-m01	Tutorin	g 2 (pra	actical cou	ırse)							
	ECTS	5	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Course			T (3)				,			
	Method	d of ass	essment	Tutoring activities, (preparation of status and/or wrap-up reports, approx. 100 hours total) Language of assessment: German and/or English							
	other p	rerequi	sites			e activities performed an the tutorial held in r		ntract for this mo	dule. The tutorial must accompa-		
08-APM1-161-m01	Foreign	Studie	s (short)								
	ECTS	5	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Course	S		P (o) Module taught in: German and/or English and potentially language of the respective country							
	Method	d of ass	essment	a) report (10 to 20 pages) or b) talk (10 to 20 minutes) Language of assessment: German and/or English and potentially language of the respective country							
		rerequi		May not be combined with o8-APM2.							
	Additio	nal Info	rmation	ation Additional information on module duration: block placement abroad with a duration of no less than 20 working days.							

08-APM2-161-m01	Foreign Stud	ies (long)									
	ECTS 10	Duration		Method of grading (not) successfully completed Modul level graduate							
	Courses		P (o) Module taught in: Germ	erman and/or English and potentially language of the respective country							
	Method of as	sessment	a) report (15 to 30 page b) talk (15 to 30 minute Language of assessmen	ges) or utes) nent: German and/or English and potentially language of the respective country							
	other prerequ	uisites	May not be combined w	d with o8-APM1.							
	Additional In	formation	Additional information	on on module duration: block placement abroad with a duration of no less than 40 working days.							
08-CHPM1-161-	Chemistry-re	lated comp	etences outside of the N	e Natural Sciences							
mo1	ECTS 5	Duration	1 semester	Method of grading (not) successfully completed Modul level graduate							
	Courses	,	No courses assigned to	to module							
	Method of as	sessment		on (approx. 90 to 180 minutes) or							
			c) oral examination in g d) log (approx. 20 page e) presentation (approx	oral examination of one candidate each (20 to 30 minutes) or oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or log (approx. 20 pages) or presentation (approx. 30 minutes) nguage of assessment: German and/or English							
	other prerequ	uisites		course advisory service in advance.							
08-CHPM2-161-	Chemistry-related competences within the Natural Sciences										
mo1	ECTS 5 Duration 1 semester Method of grading (not) successfully completed Modul level graduate										
	Courses		No courses assigned to								
	Method of as	sessment	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English								
	other prerequ	uisites	Please consult with cou	course advisory service in advance.							
o8-CHPM3-161-	Chemistry-re	lated comp	etences outside of the N	e Natural Sciences acquired abroad							
mo1	ECTS 5	Duration	1 semester	Method of grading (not) successfully completed Modul level graduate							
	Courses		No courses assigned to Module taught in: Germ	to module erman and/or English and potentially language of the respective country							
	Method of as	sessment	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English and potentially language of the respective country								
	other prerequ	her prerequisites Please consult with course advisory service in advance.									

o8-CHPM4-161-	Chemistry-re	lated comp	etenc	es within the Natura	l Sciences acquired a	broad	<u> </u>				
mo1	ECTS 5	Duration		1 semester	· · · · · · · · · · · · · · · · · · ·	(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 as	sessment	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or								
			d) log e) pre	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 prerequ	uisites	Pleas	e consult with cours	e advisory service in	advance.					
Thesis (30 ECTS ci	redits)										
08-MA-161-m01	Master-Thesi	is Chemistı	ry								
	ECTS 30	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		No co	ourses assigned to m	nodule						
	Method of as	sessment	Master's thesis (approx. 60 to 80 pages) Language of assessment: German and/or English								
	other prerequ	uisites	Wher	e applicable, specifi	c modules as specifie	d by supervisor.					
	Additional In	formation	Time	to complete: 6 mont	ths.						
Compulsory Cours	ses (double deg	ree) (35 EC	TS cre	dits)							
Subfield Courses	at partner unive	ersity abroa	ad (5 E	CTS credits)							
03-TR-152-m01	Toxicology a	nd legal st	udies								
	ECTS 3	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V (1) -	+ V (1)			•				
	Method of as	sessment	writte	en examination (app	rox. 90 minutes)						
	Additional In	formation	accor the A	according to § 2 para. 2 sentence 2 APOLmCh in conjunction with No. II 2nd letter g) and i) and No. II 1st letter d) of annex 1 to the APOLmCh and No. 5 and 6 of annex 3 to the APOLmCh							
	Referred to in	LPO I	§ 22 l	Nr. 1 h) Nr. 2 f) Nr. 3 f)							
08-VPM-DA-161-	Advanced ch	emical pra	ctical o	ourse							
mo1	ECTS 2	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Courses		P (3)								
	Method of as	sessment		t (approx. 3 pages) uage of assessment:	: German and/or Engli	sh					

Subfield Courses a	t partnei	r univer	sity abroa	ad (30	ECTS credits)							
08-VPU-161-m01	Qualific	cations	- Partner	Univer	sity							
	ECTS	30	Duration	า	1 semester	Method of grading (not) successfully completed	Modul level	graduate				
	Course	S	`	No co	urses assigned to m	odule						
	Method	d of asso	essment	Asses	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.	,					
Compulsory Elective Students must take visions) Annex DA),	one foc	us with	25 ECTS	credits	as well as one focus	s with 30 ECTS credits (focuses 1 and 2 pursuant to 1 Section 3 Subsection 2 Sentence 8 FSB.	Section 3 Subs	ection 2 FSB (subject-specific pro-				
Inorganic Chemistr	y (25 EC	TS cred	its)									
Compulsory Course	es (20 ECTS credits)											
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				
	Course	S	S (3) + S (3)									
				b) ora c) ora d) log e) pre	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English							
08-ACPM-161-m01	Inorgar	nic Cher	mistry pra	ctical	course for advanced							
	ECTS	10	Duration	า	1 semester	Method of grading (not) successfully completed	Modul level	graduate				
	Course	S		P (24) Modu	le taught in: Germar	or English						
	Method	d of asso	essment			(approx. 20 pages) and talk (approx. 15 minutes) German and/or English						
	Additio	itional Information Additional information on module duration: block taught lab course with approx. 40 working days.										
Compulsory Electiv	es (5 EC	TS cred	its)									
08-ACM2-161-m01	Bioinor	ganic C	hemistry									
	ECTS	5	Duration	1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		S (3) Modu								
	Method	d of asso	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-ACM3-161-m01	Solid s	Solid state chemistry and inorganic materials											
	ECTS	5	Duration)	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		S (3)		•	•						
	Method	of ass	essment			pprox. 90 to 180 min							
						e candidate each (20							
					oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or log (approx. 20 pages) or								
				e) pre	e) presentation (approx. 30 minutes) Language of assessment: German and/or English								
				Langu									
08-HKM2-161-m01		ed orga	_		nistry and its applic	ation in homogened	· · · · · · · · · · · · · · · · · · ·						
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		S (3) Modu	le taught in: Germa	n or English							
				b) ora c) ora d) log e) pre Langu	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English								
08-TCM2-161-m01	Basics	and Ap	plications	of Qua	antum Chemistry								
	ECTS	5	Duration)	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		S (2) -	- Ü (2)								
	Method of assessment			a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English									
Organic Chemistry	(25 ECT:	S credit	s)										
Compulsory Course	es (15 EC	TS cred	lits)										
08-OCM-SYNT-161-	Modern	1 Synth	etic Metho	ods									
mo1	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			S (2) - Modu	- Ü (1) le taught in: Germa	, ,	,	'	10				
	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-OCM-AKP1-161-	Advan	ced Res	earch Pro	ject Or	ganic Chemistry							
mo1	ECTS	10	Duratio	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Cours	es		P (20) Modu	P (20) Module taught in: German or English							
	Metho	d of ass	essment			es) and talk (approx. German and/or Engl						
Compulsory Electiv	es (10	ECTS cre	dits)									
08-0CM-NAT-172-	Modern Aspects of Natural Product Chemistry and Biological Chemistry											
mo1	ECTS	5	Duratio	<u> </u>	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Cours	es		S /Mod	S /Module taught in: German or English							
	Method of assessme) written examination (approx. 45 to 90 minutes) or) oral examination of one candidate each (20 to 30 minutes) or) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) anguage of assessment: German and/or English							
		pants ar of place		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 available.								
o8-OCM-FM-161-	Organ	ic Functi	onal Mat	erials								
m01	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Cours			S (3)								
	Metho	od of ass	essment	b) ora c) ora d) log e) pre	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English							
08-HKM1-152-m01	Organ	o- and B	iocatalys	is								
	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Cours			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	Supran	nolecula	r Chemis	try (Ba	sics)							
	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	s S	•	S (3)		·	•					
	Method	of asse	essment	a) written examination (approx. 90 minutes) or								
						ne candidate each (approx. 20 minutes)						
08-SCM3-152-m01	Bioorga	onic Che	mistry	Langu	anguage of assessment: German and/or English							
00-3CM3-152-11101			Duration		1 comostor	Mothod of grading numerical grade	Modul level	graduato				
	Course	5	Duration	S (3)	1 semester	Method of grading numerical grade	Modul level	graduate				
			occmont		tton ovamination (annroy 45 to 00 minutos) or						
	Method	ı 01 asst	2331116111		a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or							
				c) ora	oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate)							
					nguage of assessment: German and/or English							
08-TCM2-161-m01		sics and Applications of Quantum Chemistry										
		5	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate				
	Course			` '	$ (2) + \ddot{U}(2) $							
	Method	d 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	s) or	r carraraate, or					
					sentation (approx.							
o DILLIVA CD			<u> </u>			t: German and/or English						
08-PH-KACP-152- mo1					alytical Chemistry							
11101	ECTS	5	Duratio		1 semester	Method of grading (not) successfully complete	d Modul level	undergraduate				
	Course			P (5)	/>							
	Method	d of asse	essment			(pre and post-experiment examination talks appro tical performance (2 to 4 random examinations)	x. 15 minutes eac	th, log approx. 5 to 10 pages each)				
						t: German and/or English						
Physical Chemistry	(25 ECT	'S credit	ts)			,						
Compulsory Course												
08-PCM1a-161-	Laser S	pectros	сору									
mo1	ECTS	5	Duratio	<u> </u>	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		S (2) + Ü (1)								
ļ				Module taught in: German or English								
	Method	d 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								
				Lungt	age or assessmen	Jerman and/ or English						

08-PCM1b-161-	Advanc	ed Phys	sical Che	mistry	(Lab)							
mo1	ECTS	5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course	S		P (4) Modu	Module taught in: German or English							
	Method	l of asso	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	Additional information on module duration: block taught lab course with approx. 20 working days.							
08-PCM2-161-m01	Statisti	cal Med	chanics a	nd Rea	ction Dynamics							
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (2) - Modu	+ Ü (1) le taught in: Germar	n or English						
	Method	l of asso	essment	b) ora c) talk	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes) Language of assessment: German and/or English							
08-PCM6-161-m01	Physica	al Chem	istry (Ad	vanced	Lab)							
	ECTS	5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course	S		P (4) Modu	le taught in: Germar	n or English						
	Method	d of asso	essment		presentation (approx. 20 minutes) Language of assessment: German and/or English							
	Additio	nal Info	rmation	Additi	onal information on	module duration: bl	ock taught lab course with app	rox. 20 working	days.			
Compulsory Electiv	es (5 EC	TS cred	its)									
08-PCM3-161-m01	Nanosc	ale Mat	terials									
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (2) + Ü (1) Module taught in: German or English								
	Method	l of asso	essment	b) ora c) talk Langu	l examination of one (approx. 30 minute	oprox. 90 minutes) or e candidate each (ap es) German and/or Engl	prox. 20 minutes) or					

o8-PCM4-161-mo1	Ultrafast spectroscopy and quantum-control												
	ECTS	5	Duration	1	1 semester	Method of grading num	erical grade	Modul level	graduate				
	Courses	5		S (2) - Modu	- FÜ (1) le taught in: Germa	an or English		•					
	Method	of asse	essment	b) ora c) talk	tten examination (a l examination of or a (approx. 30 minut age of assessment								
	other pr	rerequis	ites	Prior o	rior completion of modules o8-PCM1a and o8-PCM1b recommended.								
08-PCM5-161-m01	Physica	l Chem	istry of S	upram	olecular Assemblie	es							
	ECTS	5	Duration	1	1 semester	Method of grading num	erical grade	Modul level	graduate				
	Courses	5			6 (2) + Ü (1) Nodule taught in: German or English								
	Method	of asse	essment	b) ora c) talk	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes) Language of assessment: German and/or English								
08-TCM4-161-m01	Quantum Dynamics												
	ECTS	5	Duration		1 semester	Method of grading num	erical grade	Modul level	graduate				
	Courses			S (2) -									
	Method	of asse	essment	b) ora c) ora d) log e) pre	l examination of or l examination in gr (approx. 20 pages sentation (approx.		o minutes) or	andidate) or					
08-TCM2-161-m01	Basics a	and App	lications	of Qua	antum Chemistry								
	ECTS	5	Duration		1 semester	Method of grading num	erical grade	Modul level	graduate				
	Courses			S (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-TCM3-161-m01	Numerio	cal Meth	nods and	Progr	amming								
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	5		S (2) ·	+ Ü (2)	•		•	-				
	Method	of asse	ssment		a) written examination (approx. 90 to 180 minutes) or								
				b) ora	l examination of or	ne candidate each (2	o to 30 minutes) or						
					oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or log (approx. 20 pages) or								
					sentation (approx.								
					nguage of assessment: German and/or English								
08-TCAP1-161-m01	Theoret	ical Che	mistry -	Projec	t course quantum o	hemistry							
	ECTS	5	Duration	า	1 semester	Method of grading	(not) successfully complete	d Modul level	graduate				
	Courses	5		P (5)	-	,		· ·	-				
	Method	of asse	ssment	prese	resentation (approx. 30 minutes)								
					nguage of assessment: German and/or English ditional information on module duration: block taught lab course with approx. 20 working days.								
							lock taught lab course with a	pprox. 20 working	g days.				
08-TCAP2-161-m01				<u>·</u>	t course quantum o	<u> </u>							
	ECTS	5	Duration		1 semester	Method of grading	(not) successfully complete	d Modul level	graduate				
	Courses			P (5)									
	Method	of asse	ssment		presentation (approx. 30 minutes) Language of assessment: German and/or English								
	Addition	nal Infor	mation	Additional information on module duration: block taught lab course with approx. 20 working days.									
o8-FU-Ma-	Materia	l Scienc	e 1 (Basi	c introduction)									
Wi1-152-m01	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses	5		V (3) ·	+ Ü (1)								
				b) ora c) ora d) log e) pre Langu	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) c. anguage of assessment: German and/or English								
08-FMM-MP-161-	Lab Cou	ırse Mat	erial Sci	ence									
mo1	ECTS	5	Duration	1	1 semester	Method of grading	(not) successfully complete	d Modul level	graduate				
	Courses	5		P (8)									
	Method	of asse	ssment	and a	ssessment of pract		o 4 random examinations)	x. 15 minutes eac	h, log approx. 5 to 10 pages each)				

Biochemistry (25 E	CTS cre	dits)									
Compulsory Course	es (15 E	CTS cre	edits)								
08-BC-	Molec	ular Bio	ology for A	dvanc	ed Students						
MOLMC-161-mo1	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modu	l level	graduate	
	Course				+ Ü (1)						
	Molecular Biology labo			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-		_									
mo1	ECTS 10 Duration				1 semester	Method of grading	numerical grade	Modu	l level	undergraduate	
	Course	_		P (5)		approx. 45 to 90 minut		,			
					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 maximum of 4 hours) Language of assessment: German and/or English Assessment offered: Once a year, winter semester						
	pants a	and allo- ces	Selection number of the control of t	per of available places grade of successive to a 2 (one third of per of subject semes available. The control of	emie (Biochemistry), E es, places will be allo sfully completed mode places): number of se sters, places will be all ster's and MINT-Lehrar (Chemistry) (120 ECTS). Among applicants wi ained and places re-all d completely, theses as follows: Places will f subject semesters, p	cated according to the les; among applicated by lot. A waiter PLUS Master's: 6 Scredits) will be contith the same number llocated by lot as the places will be distribe allocated according applicated according accordi	he following quota nts with the same the respective app iting list will be ma places. Selection p isidered first: Place of subject semes by become availab outed among the st ing to the number	as: Quot average licant; a intaine process es will b ters, pla le. 2. In tudents of subje	ber of applications exceed the ta 1 (two thirds of places): current e grade, places will be allocated by among applicants with the same d and places re-allocated as they see allocated according to the numaces will be allocated by lot. A case that there are places left after the Master's degree programent sect semesters. Among applicants ll be maintained and places re-al-		

Compulsory Electiv	es (10 E0	CTS cred	lits)									
08-BC-VPMM-161-	Practica	al 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	5		P (10)	•	•	•		•			
	Method	l of asse	essment	Log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English								
	Modules successfully completed			08-B0	o8-BC-MOLP							
	Additio	nal Info	rmation	Additi	onal information on	module duration: bl	ock taught lab course	with approx. 40 working	g days.			
08-BC-VPPD-161-	Practica	al cours	e "Protei	n Degr	adation in Eukaryote	es" for advanced stu	dents	'				
mo1	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5		P (10)				*				
	Method of assessment			Log (a Langu	Log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English							
	Modules successfully completed			08-BC	-MOLP							
	Additio	nal Info	rmation	Additi	onal 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	5		P (10)								
	Method of assessment			Log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English								
	Modules successfully completed			o8-BC-MOLP								
	Additio	nal Info	rmation	Additi	onal information on	module duration: bl	ock taught lab course	with approx. 40 working	g days.			
08-BC-VPSB-161-	Practica	al cours	e "Struct	ural Bi	ology" for advanced	students						
mo1	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5		P (10)	P (10)							
	Method of assessment			Log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English								
	Modules successfully completed		o8-BC-MOLP									
	Additional Information			Additi	onal 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	1	1 semester	Method of grading numeri	cal grade	Modul level	graduate			
	Course	S		S (3)								
					Module taught in: German or English							
	Method	d of ass	essment		n) written examination (approx. 45 to 90 minutes) or							
					c) 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	o- and B	iocatalys	talysis								
	ECTS	5	Duration	1	1 semester	Method of grading numeri	cal grade	Modul level	graduate			
	Course	S		S (3)								
	Method	d of ass	essment			(approx. 45 to 90 minutes) or one candidate each (20 to 30 m	ninutes) or					
						groups of up to 3 candidates (15 nt: German and/or English	5 to 30 minutes per can	ididate)				
08-OCM-NAT-172-	Moderi	rn Aspects of Natural Product Chemistry and Biological Chemistry										
mo1	ECTS 5 Duration			า	1 semester	Method of grading numeri	cal grade	Modul level	graduate			
	Course	S		S /Mod	/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								
	Participants and allo- cation of places			ces. F	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 available.							
08-MCM3-172-m01	Drug d	esign										
	ECTS	5	Duration	1	1 semester	Method of grading numeri	cal grade	Modul level	graduate			
	Courses Method of assessment				+ Ü (1) lle taught in: Gern	nan or English						
						o minutes) with discussion nt: German and/or English						
	Participants and allocation of places			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.								

08-PH-KAC-152-	Clinica	l-analyt	ical Chen	nistry	,			-				
mo1	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S	•	V (3)	•			•	•			
	Method	of asse	essment		n examination (appi							
				Language of assessment: German and/or English								
08-PH-KACP-152-					l-analytical Chemistry							
mo1		5	Duratio		1 semester Method of grading (not) successfully completed Modul level undergraduate							
	Course			P (5)	<u>-</u>							
				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							
Functional Materia	ls (25 EC	TS cred	lits)									
Compulsory Course	es (20 EC	TS cred	lits)									
08-FMM-MP-161-	Lab Co	rrse Material Science										
mo1	ECTS	5	Duratio	n	1 semester	Method of grading ((not) successfully completed	Modul level	graduate			
	Course	S		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								
08-FMM-PA-161-	Project	Work	'									
mo1	ECTS	5	Duratio	n	1 semester	Method of grading ((not) successfully completed	Modul level	graduate			
	Course	S		P (10)				•				
	Method	d of asse	essment			d talk (approx. 15 min German and/or Englis						
08-OCM-FM-161-	Organi	c Functi	onal Mat	erials								
mo1	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	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								

o8-FU-Ma-	Material Scie	nce 1 (Bas	ic intro	duction)								
Wi1-152-m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		V (3) ·	+ Ü (1)								
	Method of as	sessment	b) ora c) ora d) log e) pre	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English								
Compulsory Electiv	es (5 ECTS cre	dits)										
o8-FU-Ma-	Material Scie	nce 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 as		b) ora c) ora d) log e) pre Langu	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English								
08-FU-NT-152-m01	Chemically and bio-inspired Nanotechnology for Material Synthesis											
	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		V (4)									
	Method of as	sessment	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English									
o8-FU-Mo-	Molecular Ma	aterials (Le	cture)									
MaV-152-mo1	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		V (3) -	+ S (1)			•					
	Method of as	sessment	exam (appr	ination in groups of ox. 30 minutes)] as v	up to 3 candidates (a	approx. 15 minutes pe 30 minutes), weighted	r candidate) or d) log (ap	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 Cours	se)						
mo1	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	25		V (2)	+ P (2)			,				
	Method	d of ass	essment	prox. Langu Asses	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) anguage of assessment: German and/or English assessment offered: Once a year, winter semester areditable for bonus							
03-FU-PM2-161- m01	Polymers II											
	ECTS	5	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	:S		S (2)	+ Ü (1)			•				
	Method of assessment			b) ora c) tall	written examination (approx. 90 minutes) or							
o8-PCM3-161-mo1	Nanos	cale Ma	terials									
	ECTS	5	Duration	า	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-SCM1-152-m01												
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	:S	•	S (3)	•	•	•	•				
				a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) Language of assessment: German and/or English								
o8-ACM3-161-mo1	Solid s	tate che	emistry ar	nd inoi	ganic materials	'		,				
	ECTS	5	Duration	<u> </u>	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	!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-TCM2-161-m01	Basics	and Ap	plications	of Qu	antum Chemistry									
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate						
	Course	S.			+ Ü (2)									
	Metho	d of ass	essment	b) ora c) ora d) log e) pre	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English									
Homogeneous Cata	alysis (2	ysis (25 ECTS credits)												
Compulsory Course	es (20 E	CTS cred	dits)											
08-HKM1-152-m01	Organo	o- and B	iocatalys	is										
	ECTS	5	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate						
	Course	·S		S (3)										
				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										
o8-HKM2-161-mo1	Advanced organometallic chemistry and its application in homogeneous catalysis													
		5	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate						
	Course	!S		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										
o8-HKM3AC-161-	Practic	al cour	se "Homo	geneo	us catalysis in Inorg	ganic Chemistry"								
mo1	ECTS	5	Duratio	n	1 semester	Method of grading (not) successfully completed	Modul level	graduate						
	Course	_			le taught in: Germa									
	Metho	d of ass	essment			e (approx. 10 pages) and talk (approx. 15 minutes) : German and/or English								

o8-HKM3OC-161-	Practical cours	e "Homog	geneous catalysis in Or	ganic Chemistry"							
mo1	ECTS 5	Duration	1 semester	Method of grading (not) successfully complete	d Modul level	graduate					
	Courses		P (6) Module taught in: German or English								
	Method of asse	essment	report on practical course (approx. 10 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English								
Compulsory Electiv	es (5 ECTS cred	its)									
08-HKM4-161-m01	Advanced trans	sition met	al chemistry								
	ECTS 5	Duration	1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses		S (3)								
	Method of asso		b) oral examination of c) oral examination in § d) log (approx. 20 page e) presentation (approx		candidate) or						
08-PCM2-161-m01	Statistical Mechanics and Reaction Dynamics										
	ECTS 5	Duration	1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses		S (2) + Ü (1) Module taught in: German or English								
	Method of asse		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-OCM-SYNT-161-	Modern Synthe	etic Metho	ods								
mo1	ECTS 5	Duration	1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses		S (2) + Ü (1)								
			Module taught in: German or English								
	Method of asso		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												
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	·	S (2) +	Ü (2)								
	Method o	of assessment			pprox. 90 to 180 min							
			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								
03-FU-PM1-152-	Polymer (Chemistry 1 (Le	ecture a	nd Practical Course	e)							
m01	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		V (2) +	P (2)								
	Method o	or assessment	prox. 5 Langua Assess	a) assessment and b) Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, lo prox. 5 to 10 pages each) and assessment of practical assignments (2 to 4 random examinations) Language of assessment: German and/or English Assessment offered: Once a year, winter semester creditable for bonus								
Medicinal Chemist	ry (25 ECTS	S credits)										
Compulsory Course	es (10 ECTS	credits)										
08-MCM1-161-m01	Practical	course medicii	nal chen	nistry								
	ECTS 1	o Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Courses	·	P (10) Module	e taught in: Germa	n or English							
	Method o	f assessment	and as	sessment of practi		o 4 random examinations) as w		h, log approx. 5 to 10 pages each) o to 50 pages)				
Compulsory Electiv	es (15 ECT	S credits)										
08-MCM2a-161-	Pharmace	eutical/Medici	nal Chei	mistry 1								
mo1	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		V (3)				•					
	Method o	f 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-MCM2b-161-	Pharmaceutical/Medicinal Chemistry 2												
mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course			V (3)									
	Method	d of ass	essment	a) written examination (approx. 90 to 180 minutes) or									
					b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or								
				d) log (approx. 20 pages) or									
				e) pre	e) presentation (approx. 30 minutes)								
				Lang	uage of assessme	nt: German and/or Eng	glish						
08-MCM3-172-m01		esign					_						
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course			Mòdı	+ Ü (1) ıle taught in: Germ								
	Method	d of ass	essment	Lang	presentation (approx. 30 minutes) with discussion Language of assessment: German and/or English								
	Particip cation			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 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-	Mass-Spectrometry and Proteomics												
mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S			+ S (1) + P (2) ule taught in: Germ	an or English							
	Method of assessment			a) written examination (approx. 45 to 90 minutes) or b) log (20 to 30 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) or e) presentation (20 to 40 minutes) Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered, no less than once a year									
	Participants and allo- cation of places			67 places.									
08-PH-KAC-152-	Clinica	l-analyt	tical Chem	istry									
mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S	,	V (3)	•	·		•					
	Method of assessment			written examination (approx. 120 minutes) Language of assessment: German and/or English									

08-PH-KACP-152-	Practica	al course	of clinic	al-ana	lytical Chemistry		1					
mo1	ECTS	5	Duration	ı	1 semester	Method of grading (not) successfully completed	Modul level	undergraduate				
	Courses	5		P (5)								
	Method	of asse	ssment	Vorte	state/Nachtestate (ore and post-experiment examination talks approx.	15 minutes eac	h, log approx. 5 to 10 pages each)				
						cal performance (2 to 4 random examinations)						
an OCM CVNT 464	Madara	Cuntha	tic Math	•	Language of assessment: German and/or English							
08-OCM-SYNT-161-			Duration									
			Duration		1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses				S (2) + Ü (1) Module taught in: German or English							
	Method	of asse	ssment			pprox. 90 to 180 minutes) or		_				
				b) ora	l examination of on	e candidate each (20 to 30 minutes) or						
						oups of up to 3 candidates (approx. 15 minutes per c	candidate) or					
) log (approx. 20 pages) or) 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 Duratio			1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses			S /Module taught in: German or English								
	Method	of asse	ssment		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	ants and	d allo-	Master's degree programme Chemie (Chemistry): no limitation. Master's degree programme Biochemie (Biochemistry): 20 pla-								
	cation o	of places	;	ces. P	laces will be alloca	ted according to the number of subject semesters; a	among applican	ts with the same number of sub-				
				ject so ble.	emesters, places wi	ll be allocated by lot A waiting list will be maintaine	d and places re	-allocated as they become availa-				
08-ACM2-161-m01	Bioinorg	ganic Ch		Die.	1							
			Duration	า	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses			S (3)	<u> </u>			10				
				Module taught in: German or English								
	Method	of asse	ssment	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								
L	Lunguage of assessment. German and/or English											

o8-BC-	Molecu	lar Biol	logy for A	dvance	ed Students								
MOLMC-161-mo1	ECTS	5	Duration	า	1 semester	Method of grad	ng numerical grade		Modul level	graduate			
	Courses	S		V (2)	+ 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-BC-VPSB-161-	Practica	al cours	se "Struct	ural B	iology" for advar	iced students							
mo1	ECTS	10	Duration	า	1 semester	Method of grad	ng numerical grade		Modul level	graduate			
	Courses			P (10))								
	Method of assessment) and talk (approx. 1							
	ļ				anguage of assessment: German and/or English								
	Modules successfully completed			08-B0	D8-BC-MOLP								
			ormation	Addit	ional information	on module duration	: block taught lab cours	se with app	orox. 40 workin	g days.			
Supramolecular Ch	emistry	(25 EC1	ΓS credits)					•				
Compulsory Course	es (10 EC	TS cred	dits)										
08-SCM1-152-m01	Supram	Supramolecular Chemistry (Basics)											
	ECTS	5	Duratio	n	1 semester	Method of grad	ng numerical grade		Modul level	graduate			
	Courses	S		S (3)									
	Method	of ass	essment	a) written examination (approx. 90 minutes) or									
							(approx. 20 minutes)						
08-SCM2-161-m01	Supram	- ologul	ar Chamis		ractical Course)	ent: German and/or	ingusti						
06-3CM2-101-11101			Duration	<u> </u>	1 semester	Mothod of grad	ng (not) successfully o	completed	Modul level	graduate			
		5	Duration	P (6)	1 Semester	Method of grad	ilg (ilot) successibilly t	completed	Modul level	graduate			
	Courses			(-)	ıle taught in: Ger	man or English							
	Method	of ass	essment	Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each)									
				and assessment of practical performance (2 to 4 random examinations)									
			6 11	Language of assessment: German and/or English									
	Modules successfully completed			08-SCM1									

Compulsory Electiv	es (15 ECTS	credits)									
08-SCM3-152-m01	Bioorgani	c Chemistry									
	ECTS 5	Duratio	n 1	1 semester	Method of grading nu	merical grade	Modul level	graduate			
	Courses	,	S (3)		,						
	Method of	fassessment			prox. 45 to 90 minutes)						
				examination of one							
					ups of up to 3 candidate German and/or English	s (15 to 30 minutes per can	didate)				
08-SCM4-161-m01	Supramol	ecular Chemis					1				
,	ECTS 5	Duration		1 semester	Method of grading (no	ot) successfully completed	Modul level	graduate			
	Courses	,	P (6) Module	e taught in: German	or English						
	Method of	fassessment		tation (approx. 20 rage of assessment:	minutes) German and/or English						
	Modules s	successfully d	o8-SCN	08-SCM ₂							
	Additiona	l Information	Additio	nal information on	module duration: block	taught lab course with app	rox. 20 working	days.			
08-PCM5-161-m01	Physical C	Chemistry of S	upramolecular Assemblies								
	ECTS 5	Duratio	n 1	1 semester	Method of grading nu	merical grade	Modul level	graduate			
	Courses		S (2) + Module	Ü (1) e taught in: German	or English						
	Method of	fassessment	b) oral c) talk (examination of one (approx. 30 minute	oprox. 90 minutes) or e candidate each (appro s) German and/or English	x. 20 minutes) or					
08-ACM2-161-m01	Bioinorga	nic Chemistry									
	ECTS 5	Duratio	n 1	1 semester	Method of grading nu	merical grade	Modul level	graduate			
	Courses		S (3) Module	e taught in: German							
	Method of	fassessment	b) oral c) oral c	en examination (ap examination of one examination in grou age of assessment:							

08-TCM2-161-m01	Basics and Applications of Quantum Chemistry											
	ECTS 5 Duration			n 1 semester Method of grading numerical grade M			Modul level	graduate				
	Courses	S		S (2) ·	+ Ü (2)							
	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								
08-0CM-FM-161- mo1			onal Mate									
11101	ECTS 5 Duration							Modul level	graduate			
	Courses				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 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)								
08-PCM3-161-m01	Language of assessment: German and/or English Nanoscale Materials											
00-1 CM3-101-11101		5	Duration	1 semester Method of grading numerical grade Modul level graduate								
] 	Courses		Duration	S (2) ·		Method of grading	numerical grade	Modulitevel	graduate			
	course.	3		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 (approx. 30 minutes)								
				Language of assessment: German and/or English								
				creditable for bonus								
Theoretical Chemis	try (25 E	CTS cre	edits)									
Compulsory Course	es (15 EC	TS cred	lits)									
08-TCM2-161-m01	Basics	and Ap										
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	S		S (2) ·	+ Ü (2)	,		,				
	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								

an TCMa account													
08-1CM3-161-m01	Numerical Methods and Programming												
	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	S		S (2) -	$S(2) + \ddot{U}(2)$								
	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	Quantum Dynamics												
	ECTS 5 Duration			1	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	S		S (2) + Ü (2)									
	Method	d of ass	essment	a) written examination (approx. 90 to 180 minutes) or									
				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									
Compulsory Electiv	es (10 E	CTS cre	dits)										
08-TCM1-161-m01	Selected Topics in Theoretical Chemistry												
	ECTS 5 Duratio		<u> </u>	1 semester	Method of grading numerical grade	Modul level	graduate						
	Courses			$S(2) + \ddot{U}(2)$									
	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-TCAP1-161-m01	Theore	tical Ch	emistry -	Project course quantum chemistry									
	ECTS 5 Duratio			1	1 semester	Method of grading (not) successfully completed	Modul level	graduate					
	Courses			P (5)									
				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 days.									

00 TCAD2 161 mo1	Theoretical Chemistry - Project course quantum dynamics											
08-1CAF 2-101-11101					1 semester	<u> </u>	(not) successfully completed	Modul level	graduate			
	ECTS 5 Duration				1 Semester	Method of grading	(Hot) successibility completed	Modulitevel	graduate			
				P (5)								
	Method of assessment			presentation (approx. 30 minutes) Language of assessment: German and/or English								
				Additional information on module duration: block taught lab course with approx. 20 working days.								
08-MCM3-172-m01												
<i>J</i> ,	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								
	Participants and allo- cation of places			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.								
Thesis (30 ECTS cre	edits)											
08-MA-161-m01	Master-Thesis Chemistry											
	ECTS 30 Duratio			1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	!S		No courses assigned to module								
	Method	d of asse	essment	Master's thesis (approx. 60 to 80 pages) Language of assessment: German and/or English								
	other p	rerequis	sites	Where applicable, specific modules as specified by supervisor.								
	Additional Information			Time to complete: 6 months.								