



# **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: 2024						
Abbreviations used:	Course types: <b>E</b> = field trip, <b>K</b> = colloquium, <b>O</b> = conversatorium, <b>P</b> = placement/l = lecture	lab course, <b>R</b> = project, <b>S</b> = seminar, <b>T</b> = tutorial, <b>Ü</b> = exercise, <b>V</b>						
	Term: <b>SS</b> = summer semester, <b>WS</b> = winter semester							
	Methods of grading: <b>NUM</b> = numerical grade, <b>B/NB</b> = (not) successfully complete	ed						
	Regulations: <b>(L)ASPO</b> = general academic and examination regulations (for teaching-degree programmes), <b>FSB</b> = subject-specific provisions = list of modules							
	Other: <b>A</b> = thesis, <b>LV</b> = course(s), <b>PL</b> = assessment(s), <b>TN</b> = participants, <b>VL</b> = pre	erequisite(s)						
Conventions for the modules in this SFB:		sments will be offered every semester and modules are not cre-						
Information on assessment procedures:	Should there be the option to choose between several methods of assessment, the thod of assessment to be used in the current semester by two weeks after the stat customary manner.							
	Should a module comprise more than one graded assessment, all assessments w	vill be equally weighted, unless otherwise stated below.						
	Should the assessment comprise several individual assessments, successful con individual assessments.	npletion of the module will require successful completion of all						

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

### ASPO2015

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

## 17-Apr-2024 (2024-57)

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

Every module will be described using the following form:

Abbreviation	Module title									
	ECTS		Duration	(in semesters)	Method of grading		Module level			
	Courses		To be spe	To 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 of		Il if applica	if applicable						
	Other prereq	uisites	if applica	if applicable						
	Participants on of places		ocati- if applica	ble						
	Additional information		on if applica	if applicable						
	Referred to in	n LPO I	if applica	ble (examination re	gulations for teaching	g-degree programmes)				

**Compulsory Electives Focuses (75 ECTS credits)** Students must take three focuses (focuses 1 through 3 pursuant to Section 3 Subsection 2 Sentence 2 FSB (subject-specific provisions)) worth 25 ECTS credits each; provisions on available combinations are set out in Section 3 Subsection 2 Sentence 8 FSB.

Inorganic Chemistr	y (25 EC	TS cred	its)								
Compulsory Course	es (20 EC	CTS cred	its)								
08-ACM1-161-m01	Advand	ed Inor	ganic Che	emistry	1						
	ECTS	10	Duration	ı	2 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		S (3) -	+ S (3)						
				<ul> <li>a) written examination (approx. 90 to 180 minutes) or</li> <li>b) oral examination of one candidate each (20 to 30 minutes) or</li> <li>c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or</li> <li>d) log (approx. 20 pages) or</li> <li>e) presentation (approx. 30 minutes)</li> <li>Language of assessment: German and/or English</li> </ul>							
08-ACPM-161-m01	Inorga	nic Cher	nistry pra	ctical	course for advanced						
	ECTS	10	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Courses			P (24) Modu	P (24) Module taught in: German or English						
	Methoo	d of asse	essment	report on practical course (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English							
	Additio	nal Info	rmation	Addit	ional information on	module duration: bl	ock taught lab course with app	orox. 40 working	g days.		
Compulsory Electiv	es (5 EC	TS cred	its)	-							
08-ACM2-242-m01	Bioino	rganic C	hemistry								
	ECTS	5	Duration	ı	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) portfolio (approx. 30 hours total) Language of assessment: German and/or English							
08-ACM3-161-m01	Solid s	tate che	mistry ar	nd inorganic materials							
	ECTS	5	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		S (3)							
	Courses Method of assessment			<ul> <li>a) written examination (approx. 90 to 180 minutes) or</li> <li>b) oral examination of one candidate each (20 to 30 minutes) or</li> <li>c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or</li> <li>d) log (approx. 20 pages) or</li> <li>e) presentation (approx. 30 minutes)</li> <li>Language of assessment: German and/or English</li> </ul>							

Master's with 1 major Chemistry (2024)	JMU Würzburg • generated 18-Jun-2025 • exam. reg. data record 88 032 - - H 2024	page 3 / 66

08-ACMS-211-m01		Special Topics in Inorganic Chemistry												
		5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses	<i>,</i>	1	S (2) ·					3					
	Method	ofass	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									
				b) ora										
					sentation (approx.									
				Langu	lage of assessmen	t: German and/or Eng	lish							
08-HKM2-161-m01	Advance	ed orga	nometall		chemistry and its application in homogeneous catalysis									
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses	;		S (3)			·							
					Iodule taught in: German or English									
	Method	of ass	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										
					(approx. 20 pages			per culturate) of						
				e) pre	sentation (approx	. 30 minutes)								
				Langu	lage of assessmen	t: German and/or Eng	lish							
Organic Chemistry	(25 ECTS	credit	s)											
<b>Compulsory Course</b>	es (15 EC)	rs cred	its)											
08-0CM-SYNT-161-	Modern	Synth	etic Meth	ods										
m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses	;			S (2) + Ü (1)									
				Module taught in: German or English										
	Method	of 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									
					(approx. 20 pages		uales (applox. 15 minules	per canuldate) of						
					esentation (approx.									
				Language of assessment: German and/or English										
	Advance	ed Rese	earch Pro	ject Or	ganic Chemistry									
m01	ECTS	10	Duratio	n	1 semester	Method of grading	(not) successfully comple	eted Modul level	graduate					
	Courses	;		P (20)										
					lle taught in: Germ	-								
	Method of assessment					ges) and talk (approx.								
				Langu	lage of assessmen	t: German and/or Eng	แรก							

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Compulsory Electiv	oulsory Electives (10 ECTS credits)										
08-0CM-BIO-242-	Moder	n Aspec	ts of Biol	ogical	rical Chemistry						
m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	es	,	S (3) Modu	S (3) Module taught in: German or English						
	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							
08-0CM-FM-161-	Organi	ic Functi	ional Mat	erials							
m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	es		S (3)		•			-		
	Method of assessmenta) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English										
08-0CMS-211-m01	Specia	l Topics	in Organ	ic Che	mistry						
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	es		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-HKM1-152-m01	Organ	o- and B	iocatalys	is							
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	es		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							

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08-SCM1-161-m01	Supra	molecula	ar Chemis	try (Ba	isics)					
	ECTS	5	Duration	n	1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	es		S (3) Modu	S (3) Module taught in: German or English					
	Metho	d of asso	essment	b) ora	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) Language of assessment: German and/or English					
08-SCM3-152-m01	Bioorg	anic Cho	emistry							
	ECTS	5	Duration	n	1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	es		S (3)						
				b) ora c) ora Langu	a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English					
08-TCM2-161-m01										
	ECTS 5 Duratio				1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	_			S (2) + Ü (2)					
	Metho	d of ass	essment	<ul> <li>a) written examination (approx. 90 to 180 minutes) or</li> <li>b) oral examination of one candidate each (20 to 30 minutes) or</li> <li>c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or</li> <li>d) log (approx. 20 pages) or</li> <li>e) presentation (approx. 30 minutes)</li> <li>Language of assessment: German and/or English</li> </ul>						
Physical Chemistry	/ (25 EC	TS credit	t <b>s)</b>							
Compulsory Course	es (10 E	CTS cred	its)							
08-PCM1a-161-	Laser	Spectros	сору							
m01	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate		
	Courses			S (2) + Ü (1) Module taught in: German or English						
	Metho	d of asso	essment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) Language of assessment: German and/or English						

08-PCM1b-161-	Advan	ced Phy	sical Cher	nistry	(Lab)						
m01	ECTS	5	Duration	า	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Course	es		P (4) Modu	P (4) Module taught in: German or English						
	Metho	d of ass	essment	Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical performance (2 to 4 random examinations) Language of assessment: German and/or English							
	Additi	onal Info	rmation	Addit	ional information on	module duration: blo	ock taught lab course with app	rox. 20 working	g days.		
<b>Compulsory Electiv</b>	ves (15 E	ECTS cre	dits)								
08-PCM2-161-m01	Statis	tical Me	chanics a	nd Rea	ction Dynamics						
	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	es			5 (2) + Ü (1) Module taught in: German or English						
	Metho	od 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							
08-PCM3-161-m01	Nanos	cale Ma	terials								
	ECTS 5 Duration				1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	es			S (2) + Ü (1) Module taught in: German or English						
	od 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-PCM4-242-m01	Ultrafa	ast spec	troscopy a	and qu	Ind quantum-control						
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses				+ Ü (1) le taught in: Germar	n or English					
	Method of assessment				a) oral examination of one candidate each (approx. 20 minutes) or b) talk (approx. 30 minutes) or c) portfolio (approx. 50 hours total) Language of assessment: German and/or English						
1	other	prerequi	sites	Prior	completion of modu	ies o8-PCM1a and o8	-PCM1b recommended.				

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08-PCM5-161-m01	Physical Chemistry of Supramolecular Assemblies									
	ECTS	5	Duratior	า	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Course	S		S (2) - Modu	+ Ü (1) le taught in: Germa	n or English				
	Method of assessment       a) written examination (approx. 90 minutes) or         b) oral examination of one candidate each (approx. 20 minutes) or         c) talk (approx. 30 minutes)         Language of assessment: German and/or English									
08-PCM6-161-m01	Physic	al Chem	istry (Adv	anced	Lab)					
	ECTS	5	Duratior	ו	1 semester	Method of grading	(not) successfully completed	Modul level	graduate	
	Course	!S		P (4) Modu	le taught in: Germa	n or English				
	Metho	d of asse	essment		oresentation (approx. 20 minutes) Language of assessment: German and/or English					
	Additional Information Additional information on module duration: block taught lab course with approx. 20 working days.								g days.	
08-PCMS-211-m01	Special Topics in Physical Chemistry									
	ECTS	5	Duratior		1 semester	Method of grading	numerical grade	Modul level	graduate	
	Course	-		S (2) -						
	Method of assessmenta) 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		um Dyna								
	ECTS	5	Duratior		1 semester	Method of grading	numerical grade	Modul level	graduate	
	Course			S (2) -						
	Metho	d of asse	essment	<ul> <li>a) written examination (approx. 90 to 180 minutes) or</li> <li>b) oral examination of one candidate each (20 to 30 minutes) or</li> <li>c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or</li> <li>d) log (approx. 20 pages) or</li> <li>e) presentation (approx. 30 minutes)</li> <li>Language of assessment: German and/or English</li> </ul>						

08-TCM2-161-m01	Basics and A	pplications	s of Qua	antum Chemistry				
	ECTS 5	Duratio	n	1 semester Method of grading numerical grade Modul level graduate				
	Courses		S (2) -	+ Ü (2)				
	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				
Biochemistry (25 E	CTS credits)							
Compulsory Course	es (15 ECTS cre	dits)						
08-BC-MOL-222-	Molecular Biology							
m01	ECTS 5 Duratio		n	1 semester	Method of grading numerical grade	Modul level	undergraduate	
	Courses		V (2) + Ü (1) Module taught in: German					
	Method of as	sessment	b) log c) ora d) ora e) pre f) prac maxin	(10 to 20 pages) of l examination of o l examination in g sentation (20 to 3 ctical examination num of 4 hours)	ne candidate each (20 to 30 minutes) or roups of up to 3 candidates (approx. 15 to 20	·		

08-BC-MOLP-172-	Molecular Biology labor	ecular Biology laboratory course									
m01	ECTS 10 Duration	n 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.									
	cation of places	Selection process Biochemie (Biochemistry), Bachelor's (180 ECTS credits): Should the number of applications exceed the number of available places, places will be allocated according to the following quotas: Quota 1 (two thirds of places): current									
		average grade of successfully completed modules; among applicants with the same average grade, places will be allocated by									
		lot. Quota 2 (one third of places): number of subject semesters of the respective applicant; among applicants with the same									
		number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated as they									
		become available.									
		Chemie (Chemistry), Master's and MINT-Lehramt PLUS Master's: 6 places. Selection process: 1. Applications of Master's de- gree programme Chemie (Chemistry) (120 ECTS credits) will be considered first: Places will be allocated according to the num-									
		ber 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 af-									
		ter procedure 1 is finished completely, theses places will be distributed among the students in the Master's degree program-									
		me 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-al-									
		located by lot as they become available.									
Compulsory Electiv	es (10 ECTS credits)										
08-BC-FPMC-242-	<b>Research Internship Bio</b>	ochemistry for Master Chemistry									
m01	ECTS 10 Duration	n 1 semester Method of grading (not) successfully completed 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	o8-BC-MOLP									
	completed										
	Additional Information	Additional information on module duration: block taught lab course with approx. 40 working days.									

08-BCMS-211-m01	Speci	al Topics	s in Bioch	emistr	y					
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Cours	es		S (2)	+ Ü (1)	•				
			sessment	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-ACM2-242-m01	Bioin	organic	Chemistry							
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Cours	es		S (3) Modu	S (3) Module taught in: German or English					
Method of assessmenta) written examination (approx. 45 to 90 minutes) orb) oral examination of one candidate each (20 to 30 minutes) orc) portfolio (approx. 30 hours total)Language of assessment: German and/or English										
08-HKM1-152-m01	Orgar	Organo- and Biocatalysis								
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Cours	es		S (3)						
	Metho	od of ass	sessment	b) ora c) ora	al examination of on l examination in gro	pprox. 45 to 90 minu e candidate each (20 oups of up to 3 candi : German and/or Eng	o to 30 minutes) or dates (15 to 30 minutes per o	candidate)		
08-0CM-BI0-242-	Mode	rn Aspeo	ts of Biol	ogical	Chemistry					
m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Cours	Courses			lle 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-MCM3-242-	Modern Drug Research 1: Basics and Drug Design											
m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses				S (2) + Ü (1) Module taught in: German or English							
	Method	Method of assessment			a) presentation (approx. 30 minutes) or b) written examination (approx. 45 to 90 minutes) Language of assessment: German and/or English							
	Particip cation o	of place	25	numb ven p 6 plac numb 2 plac of sul list w	aces for students o er of subject seme referential conside ces for students of er of subject seme ces for students of pject semesters; an	esters; students who hist eration. the Master's degree p esters; among applicar the Master's degree p nong applicants with t	ave chosen Medizinische Che rogramme Biochemie (Bioche nts with the same number of s rogramme MINT-Lehramt PLUS	mie (Medicinal C mistry): Places w ubject semesters 5: Places will be emesters, places	allocated according to the same chemistry) as their focus will be gi- vill be allocated according to the s, places will be allocated by lot. allocated according to the number s will be allocated by lot ; a waiting			
08-PH-KAC-152-	Clinical-analytical Chemistry											
m01	ECTS 5 Duratio		n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		V (3)	V (3)							
	Methoo	Method of assessment			written examination (approx. 120 minutes) Language of assessment: German and/or English							
Functional Materia	als (25 EC	TS cred	lits)									
<b>Compulsory Cours</b>	ses (20 EC	TS crea	lits)									
08-FMM-MP-161-	Lab Co	urse Ma	terial Sci	ence								
m01	ECTS	5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course	S		P (8)					_			
	Method	l of ass	essment	Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical performance (2 to 4 random examinations) Language of assessment: German and/or English								
08-FMM-PA-161-	Project	Work										
m01	ECTS	5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course	S		P (10)	~			-				
	Method of assessment				Log (approx. 15 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English							

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08-0CM-FM-161-	Organic Functional Materials											
m01	ECTS	5	Duratio	n	1 semester	Method of grading numerical g	grade	Modul level	graduate			
	Course	S		S (3)								
	Metho	d of ass	essment	a) wr	a) written examination (approx. 90 to 180 minutes) or							
				b) oral examination of one candidate each (20 to 30 minutes) or								
				c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes)								
					Language of assessment: German and/or English							
03-FU-PM1-152-	Polyme	er Chem	istry 1 (Le	ecture	and Practical Cou	ırse)						
m01	ECTS	5	Duratio	n	1 semester	Method of grading numerical g	grade	Modul level	undergraduate			
	Course	S		V (2)	+ P (2)							
	Metho	d of ass	essment			Vortestate/Nachtestate (pre and pos						
					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								
					table for bonus	ince a year, winter semester						
Compulsory Electi	ves (5 EC	TS cred	lits)									
o8-FU-Ma-	Material Science 1 (Basic introduction)											
Wi1-212-m01	ECTS	5	Duratio		2 semester	Method of grading numerical g	grade	Modul level	undergraduate			
	Course	S		V (2)	+ Ü (1) + V (2)			•				
	Method of assessment			a) written examination (approx. 90 to 180 minutes) or								
				b) oral examination of one candidate each (20 to 30 minutes) or								
				c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or								
				d) log (approx. 20 pages) or e) presentation (approx. 30 minutes)								
						ent: German and/or English						
o8-FU-Ma-	Materia	al Scier	ice 2 (The	Mate	ial Groups)							
Wi2-152-m01	ECTS	5	Duratio	n	1 semester	Method of grading numerical g	grade	Modul level	undergraduate			
	Course	S		V (3)	+ Ü (1)							
	Metho	d of ass	essment			(approx. 90 to 180 minutes) or						
						one candidate each (20 to 30 minut						
				c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or								
					esentation (approx							
						ent: German and/or English						

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08-FU-NT-152-m01	Chemically	and bio-ins	pired N	lanotechnology for	Material Synthesis					
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V (4)							
	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-Mo-	Molecular	Materials (L	ecture)							
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		
							ate) or d) log (ap	oprox. 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						
03-FU-PM2-222-	Polymers I	1				· • · ·				
mo1	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		V (2)	+ P (2)						
	Method of a	assessment	b) ora c) tal Lang Asses	al examination of or k (approx. 30 minut uage of assessment	approx. 90 minutes) o ne candidate each (20 es) :: German and/or Engl ce a year, winter seme	to 30 minutes) or ish				
03-FU-DDEL-222-	Nano4Med									
m01	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level			
	Courses			$V(1) + \ddot{U}(1) + P(1)$						
	Method of	assessment	techr	a) placement report / fieldwork report / report on practical training / report on practical course / project report / report on technical course (approx. 10 pages) and b) presentation (approx. 30 minutes) or written examination (approx. 90 minutes) Language of assessment: German and/or English						
03-BIO-	Biopolyme	rs								
POL-222-m01	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level			
	Courses		Mòdu	V (2) + Ü (1) + P (1) Module taught in: V, Ü: English						
	Method of assessment		b) ora c) tal	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) talk (approx. 30 minutes) Language of assessment: English						

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08-FMMS-211-m01	Specia	l Topics	in the Fie	ield of Functional Materials						
	ECTS	5	Duration	n	1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	es		S (2) ·	+ Ü (1)					
	Method of assessment			b) ora c) ora d) log e) pre	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English					
08-PCM3-161-m01	Nanos	cale Ma	terials							
	ECTS	5	Duration	n	1 semester	Method of grading numerical grade	Modul level	graduate		
	Courses				S (2) + Ü (1) Module taught in: German or English					
	Method of assessmenta) 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-SCM1-161-m01	Suprar	nolecula	ar Chemis	try (Basics)						
	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level	graduate		
	Courses			S (3) Module taught in: German or English						
	Metho	d of ass	essment	b) ora	al examination of on	pprox. 90 minutes) or le candidate each (approx. 20 minutes) : German and/or English				
08-SCM5-242-m01	Suprar	nolecula	ar Soft Ma	atter						
	ECTS	5	Duration		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) oral examination of one candidate each (20 to 30 minutes) or b) talk (approx. 30 minutes) or c) portfolio (approx. 30 hours total) Language of assessment: German and/or English						

08-ACM3-161-m01	Solid s	Solid state chemistry and inorganic materials										
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	es		S (3)	-							
	Metho	d of ass	sessment		) written examination (approx. 90 to 180 minutes) or							
						e candidate each (20						
					il examination in gro g (approx. 20 pages)		dates (approx. 15 minutes	s per candidate) or				
					esentation (approx. 3							
						German and/or Eng	lish					
Homogeneous Cata	alysis (2	25 ECTS	credits)	•								
Compulsory Course	es (20 E	CTS cre	dits)									
08-HKM1-152-m01		o- and E	Biocatalys	is								
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	es		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	Advan	dvanced organometallic chemistry and its application in homogeneous catalysis										
	ECTS	5	Duratio		1 semester	Method of grading	· · · · · · · · · · · · · · · · · · ·	Modul level	graduate			
	Courses			S (3)								
				Module taught in: German or English								
	Metho	d of ass	sessment									
					b) oral examination of one candidate each (20 to 30 minutes) or							
				c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or								
					esentation (approx. 3							
						German and/or Eng	lish					
08-HKM3AC-161-	Practio	cal cour	se "Homo	geneo	us catalysis in Inorg	anic Chemistry"						
m01	ECTS	5	Duratio	n	1 semester	Method of grading	(not) successfully comp	leted Modul level	graduate			
	Course	es		P (6)		~						
					le taught in: Germai	-						
	Metho	d of ass	sessment				and talk (approx. 15 minut	tes)				
				Langu	lage of assessment:	German and/or Eng	lish					

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08-HKM30C-161-	Practica	Practical course "Homogeneous catalysis in Organic Chemistry"										
m01	ECTS	5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Courses			P (6)								
					le taught in: Germa							
	Method	ofasse	essment		port on practical course (approx. 10 pages) and talk (approx. 15 minutes)							
				Langu	lage of assessment	t: German and/or Engl	ish					
<b>Compulsory Electiv</b>	es (5 ECT	is (5 ECTS credits)										
08-HKM4-161-m01	Advance	ed trans	sition me	tal che	mistry							
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			S (3)	3)							
	Method	ofasse	essment		) written examination (approx. 90 to 180 minutes) or							
						ne candidate each (20		andidata) an				
					(approx. 20 pages		lates (approx. 15 minutes per c	andidate) or				
				e) pre	sentation (approx.	30 minutes)						
						t: German and/or Engl	ish					
08-HKMS-211-m01	Special	Special Topics in Homogeneous Catalysis										
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			S (2) +	+ Ü (1)			<b>^</b>				
	Method	ofasse	essment		a) written examination (approx. 90 to 180 minutes) or							
						ne candidate each (20						
					l examination in gr (approx. 20 pages		lates (approx. 15 minutes per c	andidate) or				
					sentation (approx.							
				Language of assessment: German and/or English								
08-PCM2-161-m01	Statistic	cal Med	hanics a	nd Rea	ction Dynamics							
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			S (2) +				n				
				Modu	le taught in: Germa	an or English						
	Method	ofasse	essment			approx. 90 minutes) or						
						ne candidate each (ap	prox. 20 minutes) or					
					k (approx. 30 minut		ich					
	Language of assessment: German and/or English											

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08-0CM-SYNT-161-	Mode	odern Synthetic Methods								
m01	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Course	es	-		S (2) + Ü (1) Module taught in: German or English					
	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					
08-TCM2-161-m01	ļ			-	antum Chemistry					
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate	
	Course				+ Ü (2)					
	Method of assessmenta) 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-	Polym	er Chem	istry 1 (Le	ecture a	and Practical Course	<u>)</u>				
m01	ECTS	5	Duration	ก	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Courses				V (2) + P (2)					
	Metho	d of ass	essment	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						
<b>Medicinal Chemist</b>	ry (25 E	CTS crea	lits)							
Compulsory Course	es (15 E	CTS cred	its)							
08-MCM1-161-m01	Practi	cal cours	e medici	nal che	emistry					
	ECTS	10	Duration	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate	
	Course	25		P (10) Module taught in: German or English						
	Metho	d of ass	essment	Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical assignments (2 to 4 random examinations) as well as report (30 to 50 pages) Language of assessment: German and/or English						

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08-MCM3-242-	Moder	n Drug l	Research	l: Basi	cs and Drug Desig	n				
m01	ECTS	5	Duration	۱	1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	S			+ Ü (1) Ile taught in: Germa	an ar Englich				
	Motho	doface	occmont		esentation (approx.					
	Metho	u 01 a55	essment			approx. 45 to 90 minutes)				
				Language of assessment: German and/or English						
		oants ai of place	nd allo- es	<ul> <li>22 places.</li> <li>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.</li> <li>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.</li> </ul>						
				of sul	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.					
<b>Compulsory Electi</b>	ves (10 E	CTS cre	dits)							
08-MCM2a-161-	Pharm	aceutica	al/Medicii	nal Ch	emistry 1					
m01	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	-		V (3)	_					
	metho			<ul> <li>a) written examination (approx. 90 to 180 minutes) or</li> <li>b) oral examination of one candidate each (20 to 30 minutes) or</li> <li>c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or</li> <li>d) log (approx. 20 pages) or</li> <li>e) presentation (approx. 30 minutes)</li> <li>Language of assessment: German and/or English</li> </ul>						
08-0CM-BI0-242-	Moder	n Aspec	ts of Biolo	ogical Chemistry						
m01	ECTS	5	Duration							
	Courses			S (3) Module taught in: German or English						
	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-MCM4-242-	Moder	n Drug l	Research :	2: Tech	nnologies - Targets	- Modalities				
m01	ECTS	5	Duration		1 semester	Method of grading numerical grade	Modul level	graduate		
	Course	S		S (2) 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) Language of assessment: German and/or English						
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08-MCMS-211-m01	Specia	l Topics	in Medic	inal Ch	emistry						
	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		S (2) ·	+ Ü (1)		·				
	Method	d of ass	essment			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) pre	e) presentation (approx. 30 minutes)						
				Language of assessment: German and/or English							
08-MBC-MSP-161-		Spectro	metry and	Prote	omics	_					
m01	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S			V (2) + S (1) + P (2) Module taught in: German or English						
	Methoo	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) pre	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-MCM2b-161-	Pharma	aceutica	al/Medici	inal Chemistry 2							
m01	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		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-PH-KAC-152-		l-analyt	ical Chem								
m01	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V (3)							
	Method of assessment										

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Supramolecular Ch	emistry (25 EC	<b>FS credits</b>	)							
Compulsory Course	Courses (10 ECTS credits)									
08-SCM1-161-m01	Supramolecul	ar Chemis	try (Basi	ics)						
	ECTS 5	Duratio	1 1	ı semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			e taught in: Germa						
	Method of ass	essment	b) oral e	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) Language of assessment: German and/or English						
08-SCM2-242-m01	Supramolecul	ar Chemis	try (Prac	ctical Course)						
	ECTS 5	Duratio	1 1	ı semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Courses		P (6) Module	e taught in: Germa	n or English					
	Method of ass	sessment	and ass	sessment of practi		4 random examinations)	15 minutes each	n, log approx. 5 to 10 pages each		
<b>Compulsory Electiv</b>	es (15 ECTS cre	dits)								
08-SCM3-152-m01	<b>Bioorganic Ch</b>	emistry								
	ECTS 5 Duratio		n 1	ı semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		S (3)							
	Method of assessmenta) written examination (approx. 45 to 90 minutes) orb) oral examination of one candidate each (20 to 30 minutes) orc) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate)Language of assessment: German and/or English									
08-SCM4-242-m01	Supramolecul	ar Chemis	try (Adva	anced Lab)						
	ECTS 5	Duratio	n 1	ı semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Courses		P (6) Module taught in: German or English							
	Method of ass	essment	presentation (approx. 20 minutes) Language of assessment: German and/or English							
	Additional Info	ormation	Additional information on module duration: block taught lab course with approx. 20 working days.							
08-SCM5-242-m01	Supramolecul	ar Soft Ma	atter							
	ECTS 5	Duratio		l semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			taught in: Germa						
Mastaria with a main of the	Method of ass	essment	b) talk ( c) portfo	(approx. 30 minut olio (approx. 30 h		ish				
Master's with 1 major Ch	ennstry (2024)					JMU Würzburg • generated 18-Jun-20	25 • exam. reg. uata re	ecord 88 032 - - H 2024 page 21 / 66		

08-SCMS-211-m01	Specia	Special Topics in Supramolecular Chemistry								
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Course	2S		S (2) +	+ Ü (1)	•				
	Metho	d of ass		a) written examination (approx. 90 to 180 minutes) or						
				b) oral examination of one candidate each (20 to 30 minutes) or						
	<ul> <li>c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or</li> <li>d) log (approx. 20 pages) or</li> <li>e) presentation (approx. 30 minutes)</li> </ul>									
				Langu	lage of assessment	: German and/or Eng	lish			
08-PCM5-161-m01	Physic	al Cher	istry of Su	upram	olecular Assemblie	s				
	ECTS	5	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Course	2S			$(2) + \ddot{U}(1)$					
				Module taught in: German or English						
	Metho	d of ass		a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or						
					(approx. 30 minute		oprox. 20 minutes) or			
						: German and/or Eng	lish			
08-ACM2-242-m01	Bioino	rganic (	hemistry							
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Course	2S		S (3)						
					Module taught in: German or English					
	Metho	d of ass				pprox. 45 to 90 minu				
					tfolio (approx. 30 h	e candidate each (20 ours total)	o to 30 minutes) or			
				Language of assessment: German and/or English						
08-TCM2-161-m01	Basics	and Ap			antum Chemistry					
	ECTS	5	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Course	25		S (2) +	+ Ü (2)	•				
	Metho	d of ass				pprox. 90 to 180 min				
						e candidate each (20				
					l examination in gro (approx. 20 pages)		dates (approx. 15 minu	tes per candidate) or		
					sentation (approx.					
						: German and/or Eng	lish			

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						
e) presentation (approx. 30 minutes) Language of assessment: German and/or English						
odule taught in: German or English written examination (approx. 90 minutes) or						
c) talk (approx. 30 minutes) Language of assessment: German and/or English						
Assessment offered: Once a year, winter semester creditable for bonus						
cture)						
tes) or c) oral						
) presentation						

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Theoretical Chemistry (25 ECTS credits)											
Compulsory Course	es (15 ECT	S cred	its)								
08-TCM2-161-m01	Basics a	nd App	olications	of Qua	of Quantum Chemistry						
	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses				5 (2) + Ü (2)						
	Method	ofasse	essment			approx. 90 to 180 min					
						ne candidate each (20		utes per candidate) or			
					(approx. 20 pages		iates (applox. 15 minu	ites per canuluate) of			
				e) pre	sentation (approx.	30 minutes)					
					-	t: German and/or Engl	ish				
08-TCM3-161-m01	Numeric		r						_		
	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			S (2) +							
	Method	ofasse	essment	a) writ	tten examination (a	approx. 90 to 180 min	utes) or				
						ne candidate each (20		utes per candidate) or			
				d) log	(approx. 20 pages	) or		ites per canalate) of			
				e) pre	sentation (approx.	30 minutes)					
	-			Langu	age of assessmen	t: German and/or Engl	ish				
08-TCM4-161-m01	Quantur		r								
	ECTS	-	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			S (2) +							
	Method	of asse	essment			approx. 90 to 180 minu 1e candidate each (20					
								utes per candidate) or			
				d) log	(approx. 20 pages	) or					
				e) pre	sentation (approx.	30 minutes)					
				Langu	age of assessmen	t: German and/or Engl	ISh				
Compulsory Electiv											
08-TCM1-161-m01			· · · · · · · · · · · · · · · · · · ·		Chemistry						
	ECTS		Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			S (2) +							
	Method	ofasse	essment			approx. 90 to 180 min					
						ne candidate each (20 ouns of un to 3 candio		utes per candidate) or			
					(approx. 20 pages			ites per curranduce, or			
					sentation (approx.						
			,	Langu	age of assessmen	t: German and/or Engl	ish				

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08-TCAP1-161-m01	Theore	tical Ch	emistry -	Projec	t course quantum cl	nemistry						
	ECTS	5	Duratio	n	1 semester	Method of grading (not) successfully	y completed	Modul level	graduate			
	Courses	s		P (5)								
	Method	l of ass	essment		entation (approx. 30							
					Language of assessment: German and/or English							
08-TCAP2-161-m01	Theoretical Chemistry - Project course quantum dynamics											
		5	Duratio		1 semester	Method of grading (not) successfully	y completed	Modul level	graduate			
	Courses			P (5)								
	Method	l of ass	essment		entation (approx. 30 uage of assessment:	minutes) German and/or English						
	Additio	nal Info	rmation	Addit	ional information on	module duration: block taught lab cou	urse with app	orox. 20 working	g days.			
08-TCMS-211-m01	Special	Topics	in Theor	etical (	Chemistry							
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade		Modul level	graduate			
	Courses		S (2)	$(2) + \ddot{U}(1)$								
	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-MCM3-242-	Modern Drug Research 1: Basics and Drug Design											
m01	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade		Modul level	graduate			
	Courses	S			S (2) + Ü (1) Module taught in: German or English							
	Method of assessment			a) presentation (approx. 30 minutes) or b) written examination (approx. 45 to 90 minutes) Language of assessment: German and/or English								
	Particip cation o			<ul> <li>22 places.</li> <li>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.</li> <li>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.</li> <li>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.</li> </ul>								

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Compulsory Electiv													
	sätzliche	e Kompe	etenzen a	us der			n the Focus Area"), students m	nay use a modul	e of their choice from the Focus				
08-ACM1-161-m01	Advanc	Advanced Inorganic Chemistry											
	ECTS 10 Duration			n 2 semester Method of grading numerical grade N				Modul level	graduate				
	Courses			S (3) -	5 (3) + S (3)								
	Method of assessment			b) ora c) ora d) log e) pre	<ul> <li>a) written examination (approx. 90 to 180 minutes) or</li> <li>b) oral examination of one candidate each (20 to 30 minutes) or</li> <li>c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or</li> <li>d) log (approx. 20 pages) or</li> <li>e) presentation (approx. 30 minutes)</li> <li>Language of assessment: German and/or English</li> </ul>								
8-ACPM-161-m01	Inorgan	ic Chen	nistry pra	actical	ctical course for advanced								
	ECTS	10	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Courses			P (24) Modu	Module taught in: German or English								
	Method of assessment					e (approx. 20 pages) a t: German and/or Engl	and talk (approx. 15 minutes) ish						
	Additio	nal Info	rmation	Addit	ional information o	n module duration: bl	ock taught lab course with ap	prox. 40 working	g days.				
8-ACMS-211-m01	Special Topics in Inorganic Chemistry												
	ECTS 5 Duratio			n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	5		S (2) -	+ Ü (1)	•		<u>.</u>					
	Method of assessment		essment	<ul> <li>a) written examination (approx. 90 to 180 minutes) or</li> <li>b) oral examination of one candidate each (20 to 30 minutes) or</li> <li>c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or</li> <li>d) log (approx. 20 pages) or</li> <li>e) presentation (approx. 30 minutes)</li> <li>Language of assessment: German and/or English</li> </ul>									
8-0CM-AKP1-161-	Advanc	ed Rese	arch Pro	ject Or	ect Organic Chemistry								
101	ECTS	10	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Courses	5		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								

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08-0CMS-211-m01	Special Top	Topics in Organic Chemistry								
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		S (2) ·	+ Ü (1)	· · · · · ·					
	Method of a	assessment	b) ora c) ora d) log e) pre	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English						
08-PCM1a-161-	Laser Spect	troscopy								
m01	ECTS 5	Duratio	n 1 semester Method of gradi			numerical grade	Modul level	graduate		
	Courses		S (2) · Modu	+ Ü (1) le taught in: Germaı	n or English					
			b) ora Langu	l examination of on lage of assessment:	pprox. 90 minutes) or e candidate each (ap : German and/or Engl	prox. 20 minutes)				
08-PCM1b-161-		hysical Che		(Lab)			<u>.</u>			
m01	ECTS 5	Duratio		1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Courses		P (4) Modu	le taught in: Germai	n or English					
	Method of a	assessment	and a	ssessment of practi		4 random examinations)	15 minutes eacl	h, log approx. 5 to 10 pages each)		
	Additional I	nformation	Addit	ional information or	n module duration: bl	ock taught lab course with app	orox. 20 working	g days.		
08-PCM6-161-m01	Physical Chemistry (Advanced Lab)									
	ECTS 5	Duratio		1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Courses		P (4) Modu	Module taught in: German or English						
	Method of a	assessment	presentation (approx. 20 minutes) Language of assessment: German and/or English							
	Additional I	nformation	Additional information on module duration: block taught lab course with approx. 20 working days.							
08-PCMS-211-m01	Special Top	oics in Physic	cal Che	mistry						
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		S (2) ·	+ Ü (1)						
	Method of a	assessment	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English							
Master's with 1 major Ch	emistry (2024)					JMU Würzburg • generated 18-Jun-20	25 • exam. reg. data r	ecord 88 032 - - H 2024 page 27 / 66		

	1			- ·									
08-PCM4-242-m01	Ultrafa	Ultrafast spectroscopy and quantum-control											
	ECTS	ECTS 5 Duration			1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			S (2) - Modu	- Ü (1) le taught in: German	or English							
	Method of assessment		b) tall c) por	a) oral examination of one candidate each (approx. 20 minutes) or b) talk (approx. 30 minutes) or c) portfolio (approx. 50 hours total) Language of assessment: German and/or English									
	other prerequisites			Prior completion of modules o8-PCM1a and o8-PCM1b recommended.									
08-BC-MOL-222-	Molecular Biology												
m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses			V (2) + Ü (1) Module taught in: German									
	Method of assessment			<ul> <li>a) written examination (approx. 45 to 90 minutes) or</li> <li>b) log (10 to 20 pages) or</li> <li>c) oral examination of one candidate each (20 to 30 minutes) or</li> <li>d) oral examination in groups of up to 3 candidates (approx. 15 to 20 minutes per candidate) or</li> <li>e) presentation (20 to 30 minutes) or</li> <li>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)</li> <li>Language of assessment: German and/or English</li> </ul>									

08-BC-MOLP-172-	Molecu	lar Biolo	ogy labor	atory	course							
m01	ECTS	10	Duratior	ı	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	S		P (5)	•		•					
	Method	l of asse	ssment		a) written examination (approx. 45 to 90 minutes) or b) log (10 to 20 pages) or							
				c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 to 20 minutes per candidate) or								
				e) presentation (20 to 30 minutes) or								
				f) practical examination (on average approx. 2 hours; time to complete will vary according to subject area but will not exceed a maximum of 4 hours)								
				Language of assessment: German and/or English Assessment offered: Once a year, winter semester								
	Deutisiu		d - 11 -				ester					
	Participants and allo- cation of places			Select numb avera lot. Q numb becor Chem gree p ber of waitir ter pro- me M with t	er of available pla ge grade of succe uota 2 (one third er of subject sem ne available. ie (Chemistry), M orogramme Chem 5 subject semeste ng list will be mair ocedure 1 is finish INT-Lehramt PLUS he same number	hemie (Biochemistry), I aces, places will be allo ssfully completed mod of places): number of s esters, places will be a aster's and MINT-Lehra ie (Chemistry) (120 ECT rs. Among applicants w ntained and places re-a ned completely, theses is as follows: Places will of subject semesters, p	ocated according to the follow ules; among applicants with t ubject semesters of the respe llocated by lot. A waiting list v mt PLUS Master's: 6 places. S S credits) will be considered f rith the same number of subje llocated by lot as they becom places will be distributed amo be allocated according to the	ing quotas: Quot he same average ctive applicant; a vill be maintaine election process irst: Places will b ct semesters, pla e available. 2. In ong the students number of subje	ber of applications exceed the ca 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 c: 1. Applications of Master's de- be allocated according to the num- aces will be allocated by lot. A case that there are places left af- in the Master's degree program- ect semesters. Among applicants ll be maintained and places re-al-			
08-BC-FPMC-242-	Posoar	ch Intorn	shin Rio	located by lot as they become available.								
mo1			Duration		1 semester		(not) successfully completed	Modul level	graduate			
			Duration	-		Method of grading			graduate			
	Courses Method of assessment			P (10)								
				Log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English								
	Modules successfully completed			o8-BC-MOLP								
	Additio	nal Infor	mation	Addit	ional information	on module duration: b	lock taught lab course with ap	prox. 40 working	g days			

08-BCMS-211-m01	Special	Topics	in Bioche	emistry	/							
	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5		S (2) ·	+ Ü (1)							
	Method	of asse	essment	b) ora c) ora d) log e) pre	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English							
08-FMM-MP-161-	Lab Cor	ırse Ma	terial Sci	ence								
m01	ECTS 5 Duratio			n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Courses	5		P (8)								
	Method	l of asse	essment	and a	ortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) nd assessment of practical performance (2 to 4 random examinations) anguage of assessment: German and/or English							
08-FMM-PA-161-	Project	Project Work										
m01	ECTS	ECTS 5 Duratio		n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Courses	S		P (10)								
	Method of assessment			Log (a Langı	approx. 15 pages) ar lage of assessment	nd talk (approx. 15 mi German and/or Eng	nutes) lish					
03-BIO-	Biopoly	mers										
POL-222-m01	ECTS	ECTS 5 Duratio		n	1 semester	Method of grading	numerical grade	Modul level				
	Courses			V (2) + Ü (1) + P (1) Module taught in: V, Ü: English								
	Method	l of asse	essment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) talk (approx. 30 minutes) Language of assessment: English								
08-FU-NT-152-m01	Chemic	ally and	d bio-insp	bired Nanotechnology for Material Synthesis								
	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	5	-	V (4)	V (4)							
	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								

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08-ACM3-161-m01	Solid s	tate che	emistry a	nd ino	rganic materials						
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		S (3)							
	Method	d of ass	essment	b) ora c) ora d) log e) pre	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 1 (Basi	ic intro	oduction)		'				
Wi1-212-m01	ECTS	5	Duratio	n	2 semester	Method of grading numerical grade	Modul level	undergraduate			
	Courses			V (2)	+ Ü (1) + V (2)						
				b) ora c) ora d) log e) pre Lange	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English						
o8-FU-Ma-	Material Science 2 (The Material Groups)										
Wi2-152-m01	ECTS 5 Duratio			1 semester	Method of grading numerical grade	Modul level	undergraduate				
	Course	S		V (3)	V (3) + Ü (1)						
	Methoo	d of ass	essment	b) ora c) ora d) log e) pre	<ul> <li>a) written examination (approx. 90 to 180 minutes) or</li> <li>b) oral examination of one candidate each (20 to 30 minutes) or</li> <li>c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or</li> <li>d) log (approx. 20 pages) or</li> <li>e) presentation (approx. 30 minutes)</li> <li>Language of assessment: German and/or English</li> </ul>						
03-FU-DDEL-222-	Nano4	Med									
m01	ECTS	ECTS 5 Duratio		n	1 semester	Method of grading numerical grade	Modul level				
	Course	S		V (1)	V (1) + Ü (1) + P (1)						
	Methoo	d of ass	essment	techr	a) placement report / fieldwork report / report on practical training / report on practical course / project report / report on technical course (approx. 10 pages) and b) presentation (approx. 30 minutes) or written examination (approx. 90 minutes) Language of assessment: German and/or English						

08-FMMS-211-m01	Special Topics	in the Fie	ld of F	unctional Material	S					
	ECTS 5	Duration	۱	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		S (2) ·	+ Ü (1)						
	Method of ass		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	Organo- and B	iocatalysi								
	ECTS 5	Duration	I	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		S (3)							
			b) ora c) ora Langu	a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English						
08-HKM3AC-161-			-	us catalysis in Inor	-			<u>.</u>		
m01	ECTS 5	Duration		1 semester	Method of grading	(not) successfully complete	ed Modul level	graduate		
	Courses		P (6) Modu	le taught in: Germa	an or English					
	Method of ass				e (approx. 10 pages) t: German and/or Eng	and talk (approx. 15 minutes) lish	)			
08-HKM30C-161-	Practical course "Homogeneous catalysis in Organic Chemistry"									
m01	ECTS 5	Duration		1 semester	Method of grading	(not) successfully complete	ed Modul level	graduate		
	Courses		P (6) Module taught in: German or English							
	Method of ass		report on practical course (approx. 10 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English							
08-HKM2-161-m01		~		mistry and its appl	ication in homogeneo					
	ECTS 5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		S (3) Module taught in: German or English							
	Method of ass		<ul> <li>a) written examination (approx. 90 to 180 minutes) or</li> <li>b) oral examination of one candidate each (20 to 30 minutes) or</li> <li>c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or</li> <li>d) log (approx. 20 pages) or</li> <li>e) presentation (approx. 30 minutes)</li> <li>Language of assessment: German and/or English</li> </ul>							

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08-0CM-SYNT-161-	Modern Synthetic Methods											
m01	ECTS	5	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Cour	ses			S (2) + Ü (1) Module taught in: German or English							
				a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English								
03-FU-PM1-152-	Polyı	ner Chen	nistry 1 (Le	ecture a	and Practical Course	e)						
m01	ECTS	5	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Cours	ses		V (2) ·	+ P (2)							
				a) assessment and b) Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log ap- prox. 5 to 10 pages each) and assessment of practical assignments (2 to 4 random examinations) Language of assessment: German and/or English Assessment offered: Once a year, winter semester creditable for bonus								
08-HKMS-211-m01	<u> </u>				us Catalysis							
	ECTS	-	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Cour			• • •	+ Ü (1)							
	Method of assessment			<ul> <li>a) written examination (approx. 90 to 180 minutes) or</li> <li>b) oral examination of one candidate each (20 to 30 minutes) or</li> <li>c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or</li> <li>d) log (approx. 20 pages) or</li> <li>e) presentation (approx. 30 minutes)</li> <li>Language of assessment: German and/or English</li> </ul>								
08-HKM4-161-m01	Adva	nced trai	nsition me	tal che	emistry							
	ECTS 5 Duratio			า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Cours	ses		S (3)								
	Meth	od of ass	sessment	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English								

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08-PCM2-161-m01	1 Statistical Mechanics and Reaction Dynamics									
	ECTS 5 Duration				1 semester	Method of grading	numerical grade	Modul level	graduate	
	Course	es		S (2) · Modu	+ Ü (1) Ile taught in: Germa	n or English				
	Metho	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						
08-MCM1-161-m01	Practio	cal cours	e medici	nal che	mistry					
	ECTS	10	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate	
	Course	es		P (10) Modu	le taught in: Germa	n 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						
08-PH-KAC-152-	Clinical-analytical Chemistry									
m01	ECTS 5 Duratio			1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		V (3)							
	Method of assessment			written examination (approx. 120 minutes) Language of assessment: German and/or English						
08-MBC-MSP-161-	Mass-	Spectro	netry and	l Prote	omics					
m01	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate	
	Course	es		V (2) + S (1) + P (2) Module taught in: German or English						
	Metho	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						
		pants ar of place		67 pla	aces.					

08-0CM-BIO-242-	Modern Aspects of Biological Chemistry											
m01	ECTS	5	Duration	n 1 semester Method of grading numerical grade Modul level graduate								
	Course	S		S (3)				,	-			
					Ile taught in: Germa							
	Method	d of asse				approx. 45 to 90 minu						
					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-MCM4-242-	Moder	n Drug R	lesearch a	2: Tech	nnologies - Targets	- Modalities						
m01	ECTS	5	Duration	I	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (2)				•	<u> </u>			
					Ile taught in: Germa							
	Method	d of asse		a) written examination (approx. 45 to 90 minutes) or								
					b) oral examination of one candidate each (20 to 30 minutes) Language of assessment: German and/or English							
08-MCM2a-161-	Pharmaceutical/Medicinal Chemistry 1											
m01	ECTS 5 Duratio				1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			V (3)					3.44444			
	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-MCM2b-161-	Pharmaceutical/Medicinal Chemistry 2											
m01	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S	<u> </u>	V (3)								
	Method	d of asse				approx. 90 to 180 min						
				<ul> <li>b) oral examination of one candidate each (20 to 30 minutes) or</li> <li>c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or</li> <li>d) log (approx. 20 pages) or</li> </ul>								
				e) presentation (approx. 30 minutes)								
				Language of assessment: German and/or English								

08-MCMS-211-m01	no1 Special Topics in Medicinal Chemistry									
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses		S(2) + U(1)							
	Method	of asse	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) inguage of assessment: German and/or English					
08-SCM1-161-m01	Suprame	olecula	r Chemis	try (Ba	isics)					
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses			S (3) Modu	le taught in: Germa	n or English				
	Method of assessment			b) ora	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) Language of assessment: German and/or English					
08-SCM2-242-m01	Supram	olecula	r Chemis	try (Pr	actical Course)				_	
	ECTS	5	Duratio		1 semester	Method of grading	(not) successfully completed	Modul level	graduate	
	Courses			P (6) Module taught in: German or English						
	Method of assessment Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 t and assessment of practical performance (2 to 4 random examinations) Language of assessment: German and/or English							n, log approx. 5 to 10 pages each)		
08-ACM2-242-m01	Bioinorg	ganic C	hemistry							
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses			S (3) Module taught in: German or English						
	Method of assessment			a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) portfolio (approx. 30 hours total) Language of assessment: German and/or English						
08-SCM3-152-m01	Bioorga	nic Che	emistry							
	ECTS	5	Duratio	n	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						

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08-SCM4-242-m01	Supramolecula	ar Chemis	try (Ad	lvanced Lab)						
	ECTS 5	Duration	ו	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Courses		P (6)	~	•					
				le taught in: Germa						
	Method of asso	essment		ntation (approx. 20	o minutes) t: German and/or Eng	lich				
	Additional Info	rmation				lock taught lab course with app	rov oo working	- dave		
o8-FU-Mo-						lock laught lab course with app		g uays.		
MaV-152-mo1	Molecular Mat			1 comostor	Method of grading	numerical grade	Modul level	undergraduate		
		Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V (3) -							
	Method of ass	essment	(a) wr	ination in groups of	approx. 90 to 180 mil f un to 3 candidates (	approx 15 minutes per candida	one candidate	each (20 to 30 minutes) or c) oral prox. 20 pages) or e) presentation		
						30 minutes), weighted 3:1		prox 20 pages, or c) presentation		
			Langu	lage of assessment	t: German and/or Eng	lish				
08-PCM3-161-m01	Nanoscale Mat	terials								
	ECTS 5	Duration	ו	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		S (2) -							
	Module taught in: German or English									
	Method of assessmenta) 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									
08-0CM-FM-161-	Organic Functional Materials									
m01	ECTS     5     Duration     1 semester     Method of grading     numerical grade     Modul level     graduate									
	Courses		S (3)							
	Method of ass	essment			approx. 90 to 180 min					
					ne candidate each (20		andidata) an			
				(approx. 20 pages		dates (approx. 15 minutes per c	andidate) or			
	e) presentation (approx. 30 minutes)									
	Language of assessment: German and/or English									
08-PCM5-161-m01										
	ECTS     5     Duration     1 semester     Method of grading     numerical grade     Modul level     graduate									
	Courses S (2) + Ü (1)									
				le taught in: Germa	-		_			
	Method of ass	essment			approx. 90 minutes) c					
				l examination of or ( (approx. 30 minut	ne candidate each (ap	oprox. 20 minutes) or				
					t: German and/or Eng	lish				
	, , , , , , , , , , , , , , , , , , ,						-			
Master's with 1 major Che	emistry (2024)					JMU Würzburg • generated 18-Jun-20	25 • exam. reg. data r	record 88 032 - - H 2024 page 37 / 66		

03-FU-PM2-222-	Polyme	ers II									
m01	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V (2) ·	+ P (2)	•	<u>.</u>		<u>-</u>		
	Metho	d of asse	essment			pprox. 90 minutes) c					
						e candidate each (20	) to 30 minutes) or				
					(approx. 30 minute	es) : German and/or Eng	lich				
						e a year, winter seme					
					able for bonus	, ,					
08-SCMS-211-m01	Specia	l Topics	in Supra	molecu	ılar Chemistry						
	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	!S		S (2) ·	+ Ü (1)						
	Metho	d of asse	essment			pprox. 90 to 180 min					
						e candidate each (20	o to 30 minutes) or dates (approx. 15 minut	tas par candidata) ar			
					(approx. 20 pages)		Jales (applox. 15 minu	tes per candidate) of			
				e) pre	sentation (approx.	30 minutes)					
					lage of assessment	: German and/or Eng	lish				
08-SCM5-242-m01		nolecula	ir Soft Ma	atter							
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		S (2) ·							
				Module taught in: German or English							
	Metho	d of asse	essment	a) oral examination of one candidate each (20 to 30 minutes) or b) talk (approx. 30 minutes) or							
					c) portfolio (approx. 30 hours total)						
				Langu	Language of assessment: German and/or English						
08-TCM2-161-m01	Basics	and App	plications	of Quantum Chemistry							
	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		S (2) ·	+ Ü (2)						
	Metho	d of asse	essment			pprox. 90 to 180 min					
						e candidate each (20	o to 30 minutes) or dates (approx. 15 minut	tac nar candidata) ar			
					(approx. 20 pages)		Jales (applox. 15 minu	les per candidate) of			
					sentation (approx.						
						German and/or Eng	lish				

08-TCM3-161-m01	Numeri	cal Met	hods and	Progra	amming								
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		S (2) ·	+ Ü (2)				_				
	Method	l of asse	essment			pprox. 90 to 180 min							
						e candidate each (20		u didata) au					
					(approx. 20 pages)		dates (approx. 15 minutes per ca	andidate) or					
					esentation (approx. 3								
						German and/or Eng	lish						
08-TCM4-161-m01	Quantu	m Dyna	mics										
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	5		S (2) ·	+ Ü (2)								
	Method	l of asse	essment			pprox. 90 to 180 min							
						e candidate each (20		ndidata) 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)								
				Language of assessment: German and/or English									
08-TCM1-161-m01	Selected Topics in Theoretical Chemistry												
	ECTS       5       Duration       1 semester       Method of grading       numerical grade       Modul level       graduate								graduate				
	Courses S (2) + Ü (2)												
	Method of assessment a) written examination (approx. 90 to 180 minutes) or												
	b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or												
					(approx. 20 pages)		lates (applox. 15 minutes per ca	andidate) of					
					esentation (approx. 3								
						German and/or Eng	lish						

08-MCM3-242-	Moder	n Drug R	lesearch	1: Basi	cs and Drug Desigr	n					
m01	ECTS	5	Duratio	n	1 semester	Method of grading	g numerical grade	1	Modul level	graduate	
	Course	S		S (2) + Ü (1) Module taught in: German or English							
	Method of assessment			a) presentation (approx. 30 minutes) or b) written examination (approx. 45 to 90 minutes) Language of assessment: German and/or English							
	Participants and allo- cation of places			numb ven pr 6 plac numb 2 plac of sub	aces for students of per of subject seme referential conside ces for students of per of subject seme ces for students of pject semesters; an	esters; students who lead eration. the Master's degree pesters; among applica the Master's degree performed by the master's degree p	have chosen Medizinisch programme Biochemie (E ants with the same numb programme MINT-Lehram	he Chemie Biochemis Der of subj nt PLUS: P bject seme	e (Medicinal C stry): Places w lect semesters Places will be a esters, places	e allocated according to the same Chemistry) as their focus will be gi- vill be allocated according to the s, places will be allocated by lot. allocated according to the number s will be allocated by lot ; a waiting	
08-TCMS-211-m01	Specia	l Topics	in Theore	etical C	Chemistry						
	ECTS	5	Duration	n	1 semester	Method of grading	g numerical grade	1	Modul level	graduate	
	Course	S		S (2) -	+ Ü (1)						
	Method of assessment		essment	<ul> <li>a) written examination (approx. 90 to 180 minutes) or</li> <li>b) oral examination of one candidate each (20 to 30 minutes) or</li> <li>c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or</li> <li>d) log (approx. 20 pages) or</li> <li>e) presentation (approx. 30 minutes)</li> <li>Language of assessment: German and/or English</li> </ul>							
08-TCAP1-161-m01	Theore	tical Ch	emistry -	Project course quantum chemistry							
	ECTS	5	Duration	n	1 semester	Method of grading	g (not) successfully com	npleted	Modul level	graduate	
	Course	S		P (5)							
	Method	d of asse	essment	presentation (approx. 30 minutes) Language of assessment: German and/or English							
	Additio	onal Info	rmation	Additi	Additional information on module duration: block taught lab course with approx. 20 working days.						
08-TCAP2-161-m01	Theore	tical Ch	emistry -	Projec	t course quantum (	dynamics					
	ECTS	5	Duration	n	1 semester	Method of grading	g (not) successfully com	pleted /	Modul level	graduate	
	Course	S		P (5)							
	Method	d of asse	essment	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.							

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Subfield Other add	itional o	al qualifications (10 ECTS credits)										
08-WRM1-161-m01	Tutorir	ng 1 (pra	actical cou	ırse)								
	ECTS	5	Duratio	n	1 semester	Method of grading	(not) successfully of	completed	Modul level	graduate		
	Course	!S		T (3)	•				•			
	Metho	d of ass	essment		utoring activities, (preparation of status and/or wrap-up reports, approx. 100 hours total)							
					•	German and/or Engli						
	other p	orerequi	sites			activities performed u the tutorial held in m		sistant cont	ract for this mo	dule. The tutorial must accompa-		
08-WRM2-161-m01	Tutorir	ng 2 (pra	actical co	urse)								
	ECTS	5	Duratio	n	1 semester	Method of grading	(not) successfully of	completed	Modul level	graduate		
	Course	S	T (3)									
	Metho	d of ass	essment		toring activities, (preparation of status and/or wrap-up reports, approx. 100 hours total) nguage of assessment: German and/or English							
	other p	orerequi	sites			activities performed u the tutorial held in m		sistant cont	ract for this mo	dule. The tutorial must accompa-		
08-APM1-161-m01	Foreig	n Studie	es (short)									
	ECTS	5	Duratio	n	1 semester	Method of grading	(not) successfully of	completed	Modul level	graduate		
	Course	s		P (o)								
					Module taught in: German and/or English and potentially language of the respective country							
	Metho	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							
	other r	orerequi	sites	-	May not be combined with o8-APM2.							
			ormation	Additional information on module duration: block placement abroad with a duration of no less than 20 working days.								
08-APM2-161-m01			es (long)	Autorial internation of module duration block placement abroad with a duration of no less than 20 working duys.								
	ECTS	10	Duration	n	1 semester	Method of grading	(not) successfully of	completed	Modul level	graduate		
	Course			P (o)			( - , , - , - , - , - , - , - , -			5		
				Modu	le taught in: Germar	n and/or English and	potentially languag	e of the res	pective country	,		
	Metho	d of ass	essment		ort (15 to 30 pages)	or						
					k (15 to 30 minutes)							
						German and/or Engli	isn and potentially	language of	the respective	country		
	,	rerequi		· ·	ot be combined with			1 11 1				
	Additio	onal Info	ormation	Addit	ional information on	module duration: blo	ock placement abro	ad with a d	uration of no le	ss than 40 working days.		

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08-CHPM1-161-	Chemis	stry-rela	ated comp	etences ou	Itside of the Na	atural Sciences	_					
m01	ECTS	5	Duration	ו 1 Se	emester	Method of grading (not) successfully completed	Modul level	graduate				
	Courses			No course	No courses assigned to module							
				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								
		rerequi				se advisory service in advance.						
08-CHPM2-161-		stry-rela			ithin the Natur							
m01	ECTS	5	Duration		emester	Method of grading (not) successfully completed	Modul level	graduate				
	Course	S		No course	s assigned to r	nodule						
				a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English								
	other p	rerequi	sites	Please co	Please consult with course advisory service in advance. etences outside of the Natural Sciences acquired abroad							
08-CHPM3-161-	Chemis	stry-rela	ated comp	etences ou								
m01	ECTS	5	Duration	1 1 Se	emester	Method of grading (not) successfully completed	Modul level	graduate				
	Course	S		No courses assigned to module Module taught in: German and/or English and potentially language of the respective country								
	Method	d of ass	essment	<ul> <li>a) written examination (approx. 90 to 180 minutes) or</li> <li>b) oral examination of one candidate each (20 to 30 minutes) or</li> <li>c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or</li> <li>d) log (approx. 20 pages) or</li> <li>e) presentation (approx. 30 minutes)</li> <li>Language of assessment: German and/or English and potentially language of the respective country</li> </ul>								
	other p	rerequi	sites	Please co	nsult with cour	se advisory service in advance.						

08-CHPM4-161-	Chemis	stry-rela	ated comp	etenc	es within the Natur	al Sciences acquired	abroad					
m01	ECTS	5	Duratior	1	1 semester	Method of grading	(not) successfully completed	d Modul level	undergraduate			
	Course	S			o courses assigned to module Iodule taught in: German and/or English and potentially language of the respective country							
	Methoo	l of asso	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 and potentially language of the respective country							
	other p	rerequi	sites	Pleas	e consult with cour	se advisory service in	advance.					
Thesis (30 ECTS cr	edits)											
08-MA-161-m01	Master	-Thesis	Chemistr	у								
	ECTS	30	Duratior	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	s		No co	ourses assigned to r	module						
	Methoo	l of ass	essment	Lang	•	t: German and/or Engl						
	other p					fic modules as specifi	ed by supervisor.					
	Additio	nal Info	rmation	Time	to complete: 6 mon	nths.						
Compulsory Course	es (doub	le degre	ee) (35 EC	TS cre	dits)							
Subfield Courses a	t partnei	r univer	sity abroa	d (5 E	CTS credits)							
03-TR-152-m01	Toxicol	ogy and	d legal stu									
	ECTS	3	Duratior	ו	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	-		.,	+ V (1)							
					en examination (app	-						
	Additio	nal Info	ormation	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								
	Referre			§ 22 § 22	Nr. 1 h)    Nr. 2 f)    Nr. 3 f)							
08-VPM-DA-161-		ed cher	mical prac	tical o	ourse							
m01	ECTS	2	Duration		1 semester	Method of grading	(not) successfully completed	d Modul level	graduate			
	Course	-		P (3)								
	Methoo	l of ass	essment		t (approx. 3 pages) uage of assessment	t: German and/or Engl	lish					

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08-VPU-161-m01	Oualifi	cations	- Partner									
	ECTS	30	Duratio		1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course	1-	Duration		No courses assigned to module							
		-	essment		ssessments as specified by partner university abroad							
	meenoe		cooncil		Language of assessment: German and/or language spoken at partner university abroad							
	other p	rerequi	sites	Pleas	e consult with cour	se advisory service ir	n advance.					
	e one foo	cus with	25 ECTS	credits	as well as one foc		ts (focuses 1 and 2 pursuant to on 2 Sentence 8 FSB.	Section 3 Subs	ection 2 FSB (subject-specific pro			
Inorganic Chemist	ry (25 EC	TS cred	its)									
Compulsory Course	es (20 EC	CTS cred	lits)									
08-ACM1-161-m01	Advand	ed Inor	ganic Che	emistry	,							
	ECTS	10	Duratio	1	2 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (3) -	+ S (3)	•		•	÷			
				<ul> <li>b) oral examination of one candidate each (20 to 30 minutes) or</li> <li>c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or</li> <li>d) log (approx. 20 pages) or</li> <li>e) presentation (approx. 30 minutes)</li> <li>Language of assessment: German and/or English</li> </ul>								
08-ACPM-161-m01		nic Cher	mistry pra	actical course for advanced								
	ECTS	10	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course	S		P (24) Modu	le taught in: Germa	an or English						
	Methoo	d of asso	essment	report on practical course (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English								
	Additio	onal Info	ormation	tion Additional information on module duration: block taught lab course with approx. 40 working days.								
<b>Compulsory Electiv</b>	ves (5 EC	TS cred	its)									
08-ACM2-242-m01	Bioino	rganic C	hemistry									
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (3) 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) portfolio (approx. 30 hours total) Language of assessment: German and/or English								

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08-ACM3-161-m01	Solid state chemistry and inorganic materials											
Ī	ECTS	5	Duratior	า	1 semester	Method of gradin	g numerical grade	Modul level	graduate			
	Courses	S		S (3)	(3)							
Γ	Method	l of asse	essment		a) 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							
					sentation (approx							
				-	anguage of assessment: German and/or English							
					c chemistry and its application in homogeneous catalysis							
	ECTS	5	Duration		1 semester	Method of gradin	g numerical grade	Modul level	graduate			
	Courses	5		S (3) Modu	le taught in: Gern	nan or English						
	Method	l of asse	essment	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English								
08-TCM2-161-m01	Basics and Applications of Quantum Chemistry											
		5	Duratior		1 semester		g numerical grade	Modul level	graduate			
	Courses	S		S (2) +	· Ü (2)			*				
	Method of assessment			<ul> <li>a) written examination (approx. 90 to 180 minutes) or</li> <li>b) oral examination of one candidate each (20 to 30 minutes) or</li> <li>c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or</li> <li>d) log (approx. 20 pages) or</li> <li>e) presentation (approx. 30 minutes)</li> <li>Language of assessment: German and/or English</li> </ul>								
Organic Chemistry (	(25 ECTS	5 credits	5)									
<b>Compulsory Courses</b>	s (15 EC	TS cred	its)									
08-0CM-SYNT-161-	Modern	Synthe	etic Meth	ods								
m01	ECTS	5	Duratior	า	1 semester	Method of gradin	g numerical grade	Modul level	graduate			
	Courses	S		S (2) + Modu	· Ü (1) le 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								

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08-0CM-AKP1-161-	Advand	ced Res	earch Pro	ject Organic Chemistry							
m01	ECTS	10	Duratio	n	1 semester	Method of grading (not) successfully completed	Modul level	graduate			
	Course	S		P (20)							
				Module taught in: German or English							
	Metho	d of ass	essment		Log (approx. 15 to 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English						
Compulsory Electiv		CTS cro	ditc)	Langu							
					Ch a mà a tan a						
08-0CM-BIO-242- m01		<u> </u>	7		ical Chemistry						
mor		5	Duratio	<b>*</b>	1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses				S (3) Module taught in: German or English						
	Metho	d of ass	essment			approx. 45 to 90 minutes) or					
						1e candidate each (20 to 30 minutes) or oups of up to 3 candidates (15 to 30 minutes per ca	ndidata)				
						: German and/or English	nuluale)				
08-0CM-FM-161-	Organi	c Functi	ional Mat	_							
m01	ECTS 5 Duratio				1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses			S (3)	1		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-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)							
	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-SCM1-161-m01	Suprar	nolecula	ar Chemis	stry (Ba	asics)						
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses			S (3) Modu	S (3) Module taught in: German or English						
	Methoo	d of ass	essment								

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08-SCM3-152-m01	Bioorganic Chemistry											
	ECTS	5	Duration	า	1 semester	Method of grading n	umerical grade	Modul level	graduate			
	Courses			S (3)	5 (3)							
	Method of assessment			a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English								
08-TCM2-161-m01	Basics	Basics and Applications of Quantum Chemistry										
	ECTS 5 Duration			า	1 semester	Method of grading n	umerical grade	Modul level	graduate			
	Courses			S (2)	+ Ü (2)							
				<ul> <li>a) written examination (approx. 90 to 180 minutes) or</li> <li>b) oral examination of one candidate each (20 to 30 minutes) or</li> <li>c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or</li> <li>d) log (approx. 20 pages) or</li> <li>e) presentation (approx. 30 minutes)</li> <li>Language of assessment: German and/or English</li> </ul>								
Physical Chemistry	/ (25 ECT	S credi	ts)									
Compulsory Course	es (20 EC	CTS crea	lits)									
08-PCM1a-161-	Laser Spectroscopy											
m01	ECTS 5 Duratio		า	1 semester	Method of grading n	umerical grade	Modul level	graduate				
	Courses		S (2) + Ü (1) Module taught in: German or English									
	Methoo	d of ass	essment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) Language of assessment: German and/or English								
08-PCM1b-161-	Advanc	ed Phy:	sical Cher	nistry	(Lab)							
m01	ECTS 5 Duratio				1 semester	Method of grading (r	not) successfully completed	Modul level	graduate			
	Courses			P (4) 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 performance (2 to 4 random examinations) Language of assessment: German and/or English								
	Additio	nal Info	ormation	Addit	ional information	on module duration: bloc	k taught lab course with app	orox. 20 working	g days.			

08-PCM2-161-m01	Statist	ical Me	chanics a	s and Reaction Dynamics							
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		S (2) +							
					Module taught in: German or English						
	Metho	d of ass	essment			pprox. 90 minutes) o					
		b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes)									
						: German and/or Engl	lish				
08-PCM6-161-m01	Physic	al Chem	istry (Adv	vanced Lab)							
	ECTS	5	Duration	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Course	S		P (4) Modu	P (4) Aodule taught in: German or English						
	Method of assessment presentation (approx. 20 minutes) Language of assessment: German and/or English										
	Additio	nal Info	rmation				ock taught lab course with ap	prox. 20 working	g days.		
Compulsory Electiv	ves (5 EC	TS cred	its)	<u> </u>				<u> </u>	<u> </u>		
08-PCM3-161-m01	Nanos	cale Ma	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 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-PCM4-242-m01	Ultrafa	st spec	roscopy	and qua	antum-control						
	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			S (2) + Ü (1) Module taught in: German or English							
	Method of assessment			a) oral examination of one candidate each (approx. 20 minutes) or b) talk (approx. 30 minutes) or c) portfolio (approx. 50 hours total) Language of assessment: German and/or English							
	other p	rerequi	sites	Prior o	Prior completion of modules o8-PCM1a and o8-PCM1b recommended.						

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08-PCM5-161-m01	Physical Chem	histry of S	upram	olecular Assemblie	S					
	ECTS 5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			S (2) + Ü (1)						
			Modu	le taught in: Germa	n or English					
	Method of ass	essment			pprox. 90 minutes) oi					
				al examination of on < (approx. 30 minut	e candidate each (ap	prox. 20 minutes) or				
						ish				
08-TCM4-161-m01	Quantum Dyna	mics	Language of assessment: German and/or English							
	ECTS 5	Duration	 1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	Duration			method of glading	numencal glade	modulievel	Sidduite		
			$S(2) + \ddot{U}(2)$							
	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									
				sentation (approx.						
					German and/or Engl	ish				
08-TCM2-161-m01	101 Basics and Applications of Quantum Chemistry									
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		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							
						lates (approx. 15 minut	es 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	Numorical Mai	Numerical Methods and Programming								
08-101-1101		1		-			A4	Louis durate		
	ECTS 5 Duration			1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	-	• • •	+ Ü (2)						
	Method of ass	essment			pprox. 90 to 180 minu					
					e candidate each (20					
			c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or							
				(approx. 20 pages) esentation (approx.						
					: German and/or Engl	ish				
			Lange	age of assessment	· ociman ana/or Engi	1511				

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08-TCAP1-161-m01	Theore	tical Ch	emistry -	Projec	t course quantum ch	nemistry					
	ECTS	5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Course	s		P (5)	Ρ(5)						
	Method of assessment			presentation (approx. 30 minutes)							
				Language of assessment: German and/or English							
			rmation		Additional information on module duration: block taught lab course with approx. 20 working days.						
08-ICAP2-161-m01		tical Cho	-	-	t course quantum dy						
	ECTS	5	Duratio		1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Courses			P (5)							
	Method of assessment										
				Language of assessment: German and/or English							
					Additional information on module duration: block taught lab course with approx. 20 working days.						
o8-FU-Ma-	Material Science 1 (Basic introduction)										
Wi1-212-m01	ECTS 5 Duratio			2 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses			$V(2) + \ddot{U}(1) + V(2)$							
	Methoo	l of asse	essment	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English							
08-FMM-MP-161-	Lab Co	urse Ma	terial Sci	ence							
m01	ECTS	5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Courses			P (8)							
	Method of assessment		Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical performance (2 to 4 random examinations) Language of assessment: German and/or English								

Biochemistry (25 E	CTS crea	lits)									
Compulsory Course	es (15 EC	TS cred	lits)								
08-BC-MOL-222-	Molecular Biology										
m01	ECTS 5 Duratio			1 semester	Method of grading	numerical grade		Modul level	undergraduate		
	Courses			V (2) Modu	+ Ü (1) Ile taught in: Germ	nan					
	Method of assessment		essment	<ul> <li>a) written examination (approx. 45 to 90 minutes) or</li> <li>b) log (10 to 20 pages) or</li> <li>c) oral examination of one candidate each (20 to 30 minutes) or</li> <li>d) oral examination in groups of up to 3 candidates (approx. 15 to 20 minutes per candidate) or</li> <li>e) presentation (20 to 30 minutes) or</li> <li>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)</li> <li>Language of assessment: German and/or English</li> </ul>							
mo1	Molecu	ılar Bio	logy labo	atory	course						
	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade		Modul level	undergraduate	
	Course	S	_	P (5)							
	Method of assessment			<ul> <li>a) written examination (approx. 45 to 90 minutes) or</li> <li>b) log (10 to 20 pages) or</li> <li>c) oral examination of one candidate each (20 to 30 minutes) or</li> <li>d) oral examination in groups of up to 3 candidates (approx. 15 to 20 minutes per candidate) or</li> <li>e) presentation (20 to 30 minutes) or</li> <li>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)</li> <li>Language of assessment: German and/or English</li> <li>Assessment offered: Once a year, winter semester</li> </ul>							
	Participants and allo- cation of places			Biochemie (Biochemistry) 24 places. Selection process Biochemie (Biochemistry), Bachelor's (180 ECTS credits): Should the number of applications exceed the number of available places, places will be allocated according to the following quotas: Quota 1 (two thirds of places): current average grade of successfully completed modules; among applicants with the same average grade, places will be allocated by lot. Quota 2 (one third of places): number of subject semesters of the respective applicant; among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated as they become available. Chemie (Chemistry), Master's 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 by lot. A waiting list will be maintained and places re-allocated by lot. A waiting list will be maintained and 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, places will be allocated according to the number of subject semesters, places will be allocated according to the number of subject semesters, have a places re-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 by lot. A waiting list will be maintained and places re-allocated by lot. A waiting list will be maintained and places re-allocated by lot. A waiting list will be maintained and places re-allocated by lot. A waiting list will be maintained and places re-allocated by lot. A waiting list will be maintain							

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Compulsory Electiv	es (10 E	CTS cre	dits)							
08-BC-FPMC-242-	Resear	ch Inter	nship Bio	ochemi	stry for Master Cher	mistry				
m01	ECTS	10	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate	
	Course	S		P (10)						
	Methoo	d of ass	essment		Log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English					
	Module comple	es succe eted	essfully	08-BC	o8-BC-MOLP					
	Additional Information			Additi	dditional information on module duration: block taught lab course with approx. 40 working days.					
08-ACM2-242-m01	D1 Bioinorganic Chemistry									
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses			S (3) Modu	S (3) Module taught in: German or English					
	Methoo	d of asso	<ul> <li>a) written examination (approx. 45 to 90 minutes) or</li> <li>b) oral examination of one candidate each (20 to 30 minutes) or</li> <li>c) portfolio (approx. 30 hours total)</li> <li>Language of assessment: German and/or English</li> </ul>							
08-HKM1-152-m01	mo1 Organo- and Biocatalysis									
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Course	S		S (3)	S (3)					
	Method of assessment			b) ora c) ora	a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English					
08-0CM-BIO-242-	Moder	n Aspec	ts of Biol	ogical	gical Chemistry					
m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses			S (3) Module taught in: German or English						
	Method	d of asso	essment	b) ora c) ora	a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English					

08-MCM3-242-	Modern Drug Research 1: Basics and Drug Design									
mo1	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		S (2) + Ü (1) Module taught in: German or English a) presentation (approx. 30 minutes) or b) written examination (approx. 45 to 90 minutes) Language of assessment: German and/or English							
	Method of	fassessment								
	cation of p		16 pla numb ven p 6 pla numb 2 pla of sul list 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 gi- ven 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-	Clinical-analytical Chemistry									
m01	ECTS 5 Duration		n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		V (3)	V (3)						
	Method of	fassessment	written examination (approx. 120 minutes) Language of assessment: German and/or English							
Functional Materi	als (25 ECTS	credits)								
Compulsory Cours	ses (20 ECTS	credits)								
08-FMM-MP-161-	Lab Cours	e Material Sci	ence							
m01	ECTS 5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Courses	,	P (8)	-						
	Method of	fassessment	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 W	ork								
m01	ECTS 5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Courses		P (10)	· 		· · · · · · · · · · · · · · · · · · ·	•	·		
	Method of	fassessment		Log (approx. 15 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English						

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08-0CM-FM-161-	Organic Functional Materials										
m01	ECTS	5	Duratio	n	1 semester	Method of grading numerical g	grade	Modul level	graduate		
	Course	S		S (3)							
	Metho	d of ass	essment	a) wr	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)									
						ent: German and/or English					
03-FU-PM1-152-	Polymer Chemistry 1 (Lecture and Practical Course)										
m01	ECTS	5	Duratio	n	1 semester	Method of grading numerical g	grade	Modul level	undergraduate		
	Course	S		V (2)	+ P (2)						
	Metho	d of ass	essment			Vortestate/Nachtestate (pre and pos					
						ch) and assessment of practical assi	gnments (2 to 4 ra	ndom examinat	ions)		
					Language of assessment: German and/or English Assessment offered: Once a year, winter semester						
					table for bonus	ince a year, winter semester					
Compulsory Electi	ves (5 EC	TS cred	lits)								
o8-FU-Ma-	Material Science 1 (Basic introduction)										
Wi1-212-m01	ECTS 5 Duratio			n 2 semester Method of grading numerical grade				Modul level	undergraduate		
	Course	S		V (2)	+ Ü (1) + V (2)			•			
	Method of assessment			a) written examination (approx. 90 to 180 minutes) or							
				b) oral examination of one candidate each (20 to 30 minutes) or							
				c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or							
				d) log (approx. 20 pages) or e) presentation (approx. 30 minutes)							
						ent: German and/or English					
o8-FU-Ma-	Materia	al Scier	ice 2 (The	Mate	ial Groups)						
Wi2-152-m01	ECTS	5	Duratio	n	1 semester	Method of grading numerical g	grade	Modul level	undergraduate		
	Course	S		V (3)	+ Ü (1)						
	Metho	d of ass	essment	a) written examination (approx. 90 to 180 minutes) or							
						one candidate each (20 to 30 minut					
					al examination in g (approx. 20 pag	groups of up to 3 candidates (appro:	x. 15 minutes per c	andidate) or			
					esentation (approx						
						ent: German and/or English					

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08-FU-NT-152-m01	Chemically and bio-inspired Nanotechnology for Material Synthesis									
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses		V (4)				·			
	Method 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)						
					: German and/or Engl	ish				
o8-FU-Mo-	Molecular	Molecular Materials (Lecture)								
MaV-152-m01	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		
							ate) or d) log (ap	oprox. 20 pages) or e) presentation		
				approx. 30 minutes)] as well as talk (approx. 30 minutes), weighted 3:1 anguage of assessment: German and/or English						
03-FU-PM2-222-	Polymers I	1				· • · ·				
m01	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses		V (2)	+ P (2)						
	Method of a	assessment	b) ora c) tal Lang Asses	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) talk (approx. 30 minutes) Language of assessment: German and/or English Assessment offered: Once a year, winter semester creditable for bonus						
03-FU-DDEL-222-	Nano4Med									
m01	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level			
	Courses			$V(1) + \ddot{U}(1) + P(1)$						
	Method of	assessment	techr	a) placement report / fieldwork report / report on practical training / report on practical course / project report / report on technical course (approx. 10 pages) and b) presentation (approx. 30 minutes) or written examination (approx. 90 minutes) Language of assessment: German and/or English						
03-BIO-	Biopolyme	rs								
POL-222-m01	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level			
	Courses		Mòdu	V (2) + Ü (1) + P (1) Module taught in: V, Ü: English						
	Method of a	assessment	b) ora c) tal	itten examination (a al examination of or k (approx. 30 minut uage of assessment		to 30 minutes) or				

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08-PCM3-161-m01	Nanos	cale Ma	terials							
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Cours	es	_		+ Ü (1) Ile taught in: Germa	an or English				
	Metho	od of ass	essment	b) ora c) tall Langı	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-SCM1-161-m01	Supra	molecula	ar Chemis	stry (Ba	asics)					
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Cours	es		S (3) Modu	5 (3) Module taught in: German or English					
	Metho	od of ass	essment	b) ora	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) Language of assessment: German and/or English					
08-ACM3-161-m01										
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Cours	es		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				-	antum Chemistry	-				
	ECTS	1-	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate	
	Cours				S (2) + Ü (2)					
	Method of assessment			<ul> <li>a) written examination (approx. 90 to 180 minutes) or</li> <li>b) oral examination of one candidate each (20 to 30 minutes) or</li> <li>c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or</li> <li>d) log (approx. 20 pages) or</li> <li>e) presentation (approx. 30 minutes)</li> <li>Language of assessment: German and/or English</li> </ul>						

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Homogeneous Cata	alysis (2	5 ECTS o	credits)							
Compulsory Course	es (20 EC	CTS cred	lits)							
08-HKM1-152-m01	Organo- and Biocatalysis									
	ECTS	5	Duratior	I	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses			S (3)						
	Method of assessment			b) ora c) ora	a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English					
08-HKM2-161-m01	Advanc	ed orga	nometalli	ic cher	nistry and its appli	cation in homogeneo	us catalysis			
	ECTS	5	Duration	۱	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Course	S		S (3) Modu	6 (3) Module taught in: German or English					
	Method of assessment			<ul> <li>a) written examination (approx. 90 to 180 minutes) or</li> <li>b) oral examination of one candidate each (20 to 30 minutes) or</li> <li>c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or</li> <li>d) log (approx. 20 pages) or</li> <li>e) presentation (approx. 30 minutes)</li> <li>Language of assessment: German and/or English</li> </ul>						
08-HKM3AC-161-	Practical course "Homogeneous catalysis in Inorganic Chemistry"									
m01	ECTS	5	Duratior	ו	1 semester	Method of grading	(not) successfully comp	oleted Modul level	graduate	
	Course	S		P (6) Module taught in: German or English						
	Methoo	d of asse	essment	report on practical course (approx. 10 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English						
08-HKM30C-161-	Practic	al cours	e "Homog	geneou	us catalysis in Orga	nic Chemistry"				
m01	ECTS 5 Duratio		Duratior	ו	1 semester	Method of grading	(not) successfully comp	oleted Modul level	graduate	
	Course	S		P (6) Module taught in: German or English						
	Method	d of asse	essment	report on practical course (approx. 10 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English						

Compulsory Electiv	Advanced transition metal chemistry										
08-HKM4-161-m01			_								
	ECTS	5	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate			
	Course				S (3)						
	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 d Reaction Dynamics						
09 DCM2 464 mod	Static	ical Ma	chanics a	-							
08-PCM2-161-1101	ECTS		-		· · · · · · · · · · · · · · · · · · ·	Mathed of grading numerical grade	Modul level	graduata			
		5	Duratio		1 semester	Method of grading numerical grade	Modul level	graduate			
	Courses			• • •	S (2) + Ü (1) Module taught in: German or English						
	Metho	d of ass	essment	a) written examination (approx. 90 minutes) or							
				b) ora	b) oral examination of one candidate each (approx. 20 minutes) or						
					c) talk (approx. 30 minutes) Language of assessment: German and/or English						
	Madar	n Cunth	atic Math	-							
08-OCM-SYNT-161- m01	Modern Synthetic MethECTS5Duratio						Modul level	graduata			
	Course		Duration			Method of glading Indificit glade	Modul level	graduate			
	Course	:5		S (2) + Ü (1) Module taught in: German or English							
	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										
08-TCM2-161-m01	Basics	and Ap	plications	of Qu	antum Chemistry						
	ECTS	5	Duratio	า	1 semester	Method of grading numerical grade	Modul level	graduate			
	Course	es		S (2)	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) pre	sentation (approx.	30 minutes)					
						German and/or English					

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03-FU-PM1-152-	Polymer	olymer Chemistry 1 (Lecture and Practical Course)												
m01	ECTS	5	Duratior	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate					
	Courses			V (2) ·	+ P (2)	·	•		-					
	Method	of asse	essment	prox. Langu Asses	assessment and b) Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log ap- ox. 5 to 10 pages each) and assessment of practical assignments (2 to 4 random examinations) nguage of assessment: German and/or English sessment offered: Once a year, winter semester editable for bonus									
<b>Medicinal Chemist</b>	nal Chemistry (25 ECTS credits)													
Compulsory Course	Courses (10 ECTS credits)													
08-MCM1-161-m01	Practica	l cours	e medicir	nal che	emistry									
	ECTS	10	Duratior	۱	1 semester	Method of grading	(not) successfully complete	ed Modul level	graduate					
	Courses			P (10) Modu	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 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													
<b>Compulsory Electiv</b>	ves (15 EC	TS crea	lits)											
08-MCM2a-161-	Pharma	ceutica	l/Medicii	nal Che	emistry 1									
m01	ECTS	5	Duratior	۱	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses			V (3)										
	Method	of asse	essment	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English										
08-MCM2b-161-	· · · · · · · · · · · · · · · · · · ·	ceutica	-		emistry 2									
m01		5	Duratior		1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses			V (3)										
	Method	of asse	essment	<ul> <li>a) written examination (approx. 90 to 180 minutes) or</li> <li>b) oral examination of one candidate each (20 to 30 minutes) or</li> <li>c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or</li> <li>d) log (approx. 20 pages) or</li> <li>e) presentation (approx. 30 minutes)</li> <li>Language of assessment: German and/or English</li> </ul>										

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08-MCM3-242-	Modern [	odern Drug Research 1: Basics and Drug Design												
m01	ECTS 5	5	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses				5 (2) + Ü (1) Aodule taught in: German or English									
	Method o	of asse	ssment	b) wri	a) presentation (approx. 30 minutes) or b) written examination (approx. 45 to 90 minutes) Language of assessment: German and/or English									
Participants and allo- cation of places				16 pla numb ven plac numb 2 plac of sub list wi	<ul> <li>22 places.</li> <li>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.</li> <li>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.</li> <li>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.</li> </ul>									
08-MCM4-242-		Drug R			nologies - Targets									
m01	ECTS 5	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses				le taught in: Germa	-								
				a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) Language of assessment: German and/or English										
08-MBC-MSP-161-	Mass-Sp	ectron	netry and	Prote	omics									
m01	ECTS 5 Duration				1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses			V (2) + S (1) + P (2) Module taught in: German or English										
	Method of assessment			<ul> <li>a) written examination (approx. 45 to 90 minutes) or</li> <li>b) log (20 to 30 pages) or</li> <li>c) oral examination of one candidate each (20 to 30 minutes) or</li> <li>d) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) or</li> <li>e) presentation (20 to 40 minutes)</li> <li>Language of assessment: German and/or English</li> <li>Assessment offered: In the semester in which the course is offered, no less than once a year</li> </ul>										
	Participa cation of			67 pla	67 places.									
08-PH-KAC-152-	Clinical-a	analyti	cal Chen	nistry										
m01	ECTS 5	5	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses			V (3)										
	Method of assessment				written examination (approx. 120 minutes) Language of assessment: German and/or English									
Master's with 1 major Ch	emistry (2024)	)					JMU Würzburg • generated	d 18-Jun-2025 • exam. reg. data re	ecord 88 032 - - H 2024	page 60 / 66				

08-0CM-SYNT-161-	Moder	odern Synthetic Methods										
m01	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	:S			S (2) + Ü (1) Module taught in: German or English							
	Metho	d of asse	essment	b) ora c) ora d) log e) pre	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English							
08-0CM-BI0-242-	Moder	n Aspec	ts of Biol	ogical	Chemistry							
m01	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (3) Modu	5 (3) Module taught in: German or English							
	Metho	d of asse	essment	b) ora c) ora	a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English							
08-ACM2-242-m01	Bioino	rganic C	hemistry									
	ECTS 5 Duration			1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		S (3) Module taught in: German or English								
	Metho	d of asse	essment	a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) portfolio (approx. 30 hours total) Language of assessment: German and/or English								
08-BC-MOL-222-	Moleci	ular Biol	ogy		-		-					
m01	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		V (2) + Ü (1) Module taught in: German								
	Metho	d of asse	essment	<ul> <li>a) written examination (approx. 45 to 90 minutes) or</li> <li>b) log (10 to 20 pages) or</li> <li>c) oral examination of one candidate each (20 to 30 minutes) or</li> <li>d) oral examination in groups of up to 3 candidates (approx. 15 to 20 minutes per candidate) or</li> <li>e) presentation (20 to 30 minutes) or</li> <li>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)</li> <li>Language of assessment: German and/or English</li> </ul>								

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08-BC-FPMC-242-	Resea	earch Internship Biochemistry for Master Chemistry									
m01	ECTS	10	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Course	es		P (10)	· (10)						
	Metho	d of ass	essment		og (approx. 20 pages) and talk (approx. 15 minutes)						
						German and/or Engl	ish				
	Modul compl	es succe eted	essfully	08-B0	98-BC-MOLP						
	Additio	onal Info	rmation	Addit	dditional information on module duration: block taught lab course with approx. 40 working days.						
Supramolecular Ch	emistry	(25 ECT	S credits	)							
Compulsory Course	es (10 E	CTS cred	its)								
08-SCM1-161-m01	Supra	molecula	ar Chemis	try (Ba	sics)						
	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	es		S (3) Modu	5 (3) Aodule taught in: German or English						
	Metho	d of ass	essment	a) wri	tten examination (ap	oprox. 90 minutes) or					
				b) oral examination of one candidate each (approx. 20 minutes) Language of assessment: German and/or English							
			<u> </u>	_	_	German and/or Engl	ISh		,		
08-SCM2-242-m01			r		1			1			
	ECTS	5	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Course	25		P (6) Module taught in: German or English							
	Metho	d of ass	essment	Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical performance (2 to 4 random examinations) Language of assessment: German and/or English							
<b>Compulsory Electiv</b>	es (15 E	CTS cre	dits)								
08-SCM3-152-m01	Bioorg	anic Ch	emistry								
	ECTS	5	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	es		S (3)							
	Metho	d of ass	essment			oprox. 45 to 90 minut					
						e candidate each (20					
						ups of up to 3 candid German and/or Engl	ates (15 to 30 minutes per can ish	didate)			
				Langu	age of assessment.	Serman anu/or Lligi	1311				

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08-SCM4-242-m01	Supra	pramolecular Chemistry (Advanced Lab)													
	ECTS	5	Duration	n	1 semester	Method of grading (not) successfully completed	Modul level	graduate							
	Cours	es		P (6)											
					Aodule taught in: German or English										
	Method of assessment presentation (approx. 20 minutes) Language of assessment: German and/or English														
	Addit	ional Info	ormation	Addit	ditional information on module duration: block taught lab course with approx. 20 working days.										
08-PCM5-161-m01	Physi	cal Chem	nistry of S	upram	olecular Assemblies	i									
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate							
	Cours	es			+ Ü (1) ıle taught in: Germar	n 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-ACM2-242-m01	Bioin	organic C	hemistry												
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate							
	Cours	es		S (3) Modu	lle taught in: Germar	n or English									
	Metho	od 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) portfolio (approx. 30 hours total) Language of assessment: German and/or English											
08-TCM2-161-m01	Basic	s and Ap	plications	s of Qu	antum Chemistry										
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate							
	Cours	es		S (2)	+ Ü (2)										
	Metho	od of ass	essment	<ul> <li>a) written examination (approx. 90 to 180 minutes) or</li> <li>b) oral examination of one candidate each (20 to 30 minutes) or</li> <li>c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or</li> <li>d) log (approx. 20 pages) or</li> <li>e) presentation (approx. 30 minutes)</li> <li>Language of assessment: German and/or English</li> </ul>											

08-0CM-FM-161-	Organic Fu	ganic Functional Materials										
m01	ECTS 5	Duratio	n	1 semester	Method of grading numerical g	rade	Modul level	graduate				
	Courses		S (3)									
	Method of assessmenta) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English											
08-PCM3-161-m01	Nanoscale	Materials										
	ECTS 5	Duratio	n	1 semester	Method of grading numerical g	rade	Modul level	graduate				
	Courses			S (2) + Ü (1) Module taught in: German or English								
	Method of	assessment	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) nguage of assessment: German and/or English editable for bonus								
Theoretical Chemis	stry (25 ECT	S credits)										
Compulsory Course	es (15 ECTS	credits)										
08-TCM2-161-m01	Basics and	Application	s of Qu	antum Chemistry								
	ECTS 5	Duratio	n	1 semester	Method of grading numerical g	rade	Modul level	graduate				
	Courses		S (2) ·	+ Ü (2)								
	Method of	assessment	<ul> <li>a) written examination (approx. 90 to 180 minutes) or</li> <li>b) oral examination of one candidate each (20 to 30 minutes) or</li> <li>c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or</li> <li>d) log (approx. 20 pages) or</li> <li>e) presentation (approx. 30 minutes)</li> <li>Language of assessment: German and/or English</li> </ul>									
08-TCM3-161-m01	Numerical	Methods and	d Progra	amming								
	ECTS 5	Duratio		1 semester	Method of grading numerical g	rade	Modul level	graduate				
	Courses		S (2) ·	+ Ü (2)								
	Method of	assessment	b) ora c) ora d) log e) pre	l examination of or l examination in gr (approx. 20 pages sentation (approx.	nation (approx. 90 to 180 minutes) or tion of one candidate each (20 to 30 minutes) or ion in groups of up to 3 candidates (approx. 15 minutes per candidate) or 20 pages) or (approx. 30 minutes) sessment: German and/or English							

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08-TCM4-161-m01	Quant	um Dyna	amics					48					
	ECTS	5	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	es		S (2) ·	2) + Ü (2)								
	Metho	d of ass	essment	b) ora c) ora d) log e) pre	<ul> <li>a) written examination (approx. 90 to 180 minutes) or</li> <li>b) oral examination of one candidate each (20 to 30 minutes) or</li> <li>c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or</li> <li>d) log (approx. 20 pages) or</li> <li>e) presentation (approx. 30 minutes)</li> <li>Language of assessment: German and/or English</li> </ul>								
<b>Compulsory Electiv</b>	ory Electives (10 ECTS credits)												
08-TCM1-161-m01	Select	ed Topio	s in Theo	retical	Chemistry		-						
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	es		S (2) ·	$(2) + \ddot{U}(2)$								
	Method of assessmenta) 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		tical Ch	emistry -	Projec	t course quantum cl								
	ECTS	5	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Course			P (5)									
				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-TCAP2-161-m01		tical Ch		-	t course quantum d								
	ECTS	5	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Course	es		P (5)									
	Metho	d of ass	essment	presentation (approx. 30 minutes) Language of assessment: German and/or English									
	Additio	onal Info	ormation	Addit	ional information on	n module duration: b	lock taught lab course with app	rox. 20 working	g days.				

08-MCM3-242-	Modern	Drug F	Research	1: Basi	: Basics and Drug Design							
m01	ECTS 5 Duration			n	1 semester Method of grading numerical grade Modul level graduate							
	Courses	5			S (2) + Ü (1) Module taught in: German or English							
	Method of assessment			b) wri	a) presentation (approx. 30 minutes) or b) written examination (approx. 45 to 90 minutes) Language of assessment: German and/or English							
	Participants and allo- cation of places			<ul> <li>22 places.</li> <li>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.</li> <li>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.</li> <li>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.</li> </ul>								
Thesis (30 ECTS cr	edits)											
08-MA-161-m01	Master	Thesis	Chemistr	y								
	ECTS	30	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5		No courses assigned to module								
	Method of assessment			Master's thesis (approx. 60 to 80 pages) Language of assessment: German and/or English								
	other prerequisites			Wher	Where applicable, specific modules as specified by supervisor.							
	Additio	nal Info	ormation	Time	Time to complete: 6 months.							