

## **Annex SFB**

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

Responsible: Faculty of Chemistry and Pharmacy

Examination regulations version: 2016

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

= lecture

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

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

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

= list of modules

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

Conventions for the modules in this SFB:

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

Information on assessment procedures:

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

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

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

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

#### ASP02015

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

#### 15-Dec-2015 (2015-257)

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

Every module will be described using the following form:

Abbreviation	Module title										
	ECTS		Duration	(in semesters)	Method of grading		Module level				
	Courses		To be spe	be specified in the form X (y) with course type X abbreviated as specified above and number of weekly contact hours y							
	Method of as	ssessm	ent								
	Only after su completion of		ıl if applica	applicable							
	Other prereq	uisites	if applica	if applicable							
	Participants on of places		ocati- if applica	if applicable							
	Additional in	format	ion 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 Chemistry (25 ECTS credits)

Compulsory Courses	(20 ECTS credits)
--------------------	-------------------

compatisory cours	(											
08-ACM1-161-m01	Advanc	ed Inor	ganic Che	emistry	1							
	ECTS	10	Duratio	1	2 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (3) -	+ S (3)	'		•	•			
	Method	of ass	essment						each (20 to 30 minutes) or c) oral			
					kamination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation approx. 30 minutes) anguage of assessment: German and/or English							
08-ACPM-161-m01	Inorgar	nic Cher	mistry pra		cal course for advanced							
	ECTS 10 Duration				1 semester		(not) successfully completed	Modul level	graduate			
	Course	S		P (24) Modu								
	Method	d of ass	essment		port on practical course (approx. 20 pages) and talk (approx. 15 minutes) nguage of assessment: German and/or English							
	Additio	nal Info	rmation	Addit	ional information or	module duration: bl	ock taught lab course with app	rox. 40 working	days.			
Compulsory Electiv	es (5 EC	TS cred	its)									
08-ACM2-161-m01	Bioinor	ganic C	hemistry									
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (3) Modu	le taught in: Germai	n or English						
	Method	d of ass	essment	exam	ination in groups of		5 to 30 minutes per candidate)		ach (20 to 30 minutes) or c) oral			
o8-ACM3-161-mo1	Solid s	tate che	emistry a	nd inor	ganic materials							
	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (3)								
	Method	d of ass	essment	exam (appr	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English							

08-HKM2-161-m01	Advanced organometallic chemistry and its application in homogeneous catalysis  ECTS 5 Duration 1 semester Method of grading numerical grade Modul level graduate											
	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	!S		S (3) Modu	le taught in: Germar	n or English						
	Metho	d of ass	essment	exam (appr	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes)  Language of assessment: German and/or English							
<b>Organic Chemistry</b>	(25 ECT	S credit	ts)									
Compulsory Course	es (15 EC	TS cred	lits)									
08-OCM-SYNT-161-	Moder	n Synth	etic Meth	ods								
mo1	ECTS 5 Duration				1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses				+ Ü (1) le taught in: Germar	n or English						
				exam (appr Langu	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes)  Language of assessment: German and/or English							
	Advanced Research Project Organic Chemistry											
mo1	ECTS	10	Duratio		1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course			P (20) Module taught in: German or English								
	Metho	d of ass	essment			es) and talk (approx. German and/or Eng						
Compulsory Electiv	es (10 E	CTS cre	dits)									
08-OCM-NAT-161-	Moder	n Aspec	ts of Natu	ıral Pro	duct Chemistry and	Biological Chemistr	у					
mo1	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			S (3) Modu	le taught in: Germar	n or English		_				
	Metho	d of ass	essment	exam	a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English							
		oants ar	nd allo- es	Amon	MA Chemie: unbegrenzt, Ma Biochemie: 20 places. Places will be allocated according to the number of subject semesters.  Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available.							

08-0CM-FM-161-	Organi	Organic Functional Materials												
mo1	ECTS	5	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	S		S (3)			•							
	Method	d of ass	essment	exam (appr	) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral xamination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation approx. 30 minutes) anguage of assessment: German and/or English									
08-HKM1-152-m01	Organo	- and B	iocatalys	is										
	ECTS	5	Duratio	<u> </u>	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	S		S (3)		•								
	Method	d of ass	essment	a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate)  Language of assessment: German and/or English										
08-SCM1-152-m01	Supran	nolecula	olecular Chemistry (Basics)											
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	S		S (3)										
	Method	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-SCM3-152-m01	Bioorga	anic Ch	emistry					•						
	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	S		S (3)										
	Method	d of ass	essment	exam	ination in groups o		15 to 30 minutes per candida		ach (20 to 30 minutes) or c) oral					
08-TCM2-161-m01	Basics	and Ap	plications	of Qu	antum Chemistry									
	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	5		S (2) ·	+ Ü (2)	·								
	Method	d of ass	essment	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentatio (approx. 30 minutes)  Language of assessment: German and/or English										

Physical Chemistry	(25 ECTS o	redits)									
Compulsory Course	es (10 ECTS	credits)									
08-PCM1a-161-	Laser Spe	ctroscopy									
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							
	Method of	fassessment		a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) Language of assessment: German and/or English							
o8-PCM1b-161-	Advanced	<b>Physical Che</b>	mistry	(Lab)							
mo1	ECTS 5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Courses		P (4) Modu	le taught in: Germar	n or English						
	Method of	fassessment	and a	Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical performance (2 to 4 random examinations)  Language of assessment: German and/or English							
	Additiona	l Information	Addit	ional information on	module duration: bl	ock taught lab course with app	rox. 20 working	g days.			
<b>Compulsory Elective</b>	es (15 ECTS	credits)									
08-PCM2-161-m01	Statistica	l Mechanics a	nd Reaction Dynamics								
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		S (2) - Modu	+ Ü (1) le taught in: Germar	n or English						
	Method of	fassessment	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	Nanoscale	e Materials									
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		S (2) - Modu	+ Ü (1) le taught in: Germar	n or English						
	Method of	fassessment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes)  Language of assessment: German and/or English creditable for bonus								

08-PCM4-161-m01	Ultrafa	st spect	roscopy	and qu	antum-control								
	ECTS	5	Duration	ı	1 semester	Method of grading numerical grad	le	Modul level	graduate				
	Courses	S		S (2) -	⊦ Ü (1) le taught in: Germa	an or Fnglish							
	Method	l of assi	essment				ation of one car	didate each (a	unnrox 20 minutes) or c) talk (an-				
	Wethor	1 01 433	cooment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes)  Language of assessment: German and/or English									
	other p	rerequi	sites	Prior	rior completion of modules o8-PCM1a and o8-PCM1b recommended.								
08-PCM5-161-m01	Physica	al Chem	istry of S	upram	upramolecular Assemblies								
	ECTS	5	Duration	1	1 semester	Method of grading numerical grad	le	Modul level	graduate				
	Courses	5		S (2) - Modu	+ Ü (1) le taught in: Germa	an or English							
	Method	l of asso	essment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes) Language of assessment: German and/or English									
08-PCM6-161-m01	Physica	al Chem	istry (Adv	vanced Lab)									
	ECTS 5 Duratio			1	1 semester	Method of grading (not) successfu	ılly completed	Modul level	graduate				
	Courses	S		P (4) Modu	le taught in: Germa	an or English							
	Method	l of asso	essment		presentation (approx. 20 minutes) Language of assessment: German and/or English								
	Additio	nal Info	rmation	Addit	Additional information on module duration: block taught lab course with approx. 20 working days.								
08-TCM1-161-m01	Selecte	d Topic	s in Theo	retical Chemistry									
	ECTS	5	Duration	1	1 semester	Method of grading   numerical grad	le	Modul level	graduate				
	Courses	S		S (2) -									
			essment	exam (appr Langu	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English								
08-TCM2-161-m01	Basics	and App	plications	of Qu	antum Chemistry								
	ECTS	5	Duration		1 semester	Method of grading   numerical grad	le	Modul level	graduate				
	Courses			S (2) -									
	Method	l of asso	essment	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes)  Language of assessment: German and/or English									

Biochemistry (25 E	CTS cre	dits)										
Compulsory Course	s (15 E0	CTS cred	lits)									
o8-BC-	Molec	ular Bio	logy for Ad	dvance	d Students							
MOLMC-161-mo1	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course				V (2) + Ü (1)							
				exam (appr Langu	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes)  Language of assessment: German and/or English							
08-BC-MOLP-152-	Molecular Biology laboratory course											
m01	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	es		P (5)								
			essment	to 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 to 20 minutes per candidate) or e) presentation (20 to 30 minutes) or f) practical examination (on average approx. 2 hours; time to complete will vary according to subject area but will not exceed a maximum of 4 hours)  Assessment offered: Once a year, winter semester  Language of assessment: German and/or English								
		pants ai		Shou quota same tive a be ma Chem alloca	Biochemie (Biochemistry), Bachelor's: 24 places. Selection process Biochemie (Biochemistry), Bachelor's (180 ECTS credits) Should the number of applications exceed the number of available places, places will be allocated according to the following quotas: Quota 1 (two thirds of places): current average grade of successfully completed modules; among applicants with the same average grade, places will be allocated by lot. Quota 2 (one third of places): number of subject semesters of the respective applicant; among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list w be maintained and places re-allocated as they become available.  Chemie (Chemistry), Master's: 6 places. Selection process Chemie (Chemistry), Bachelor's (120 ECTS credits): Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available.							
Compulsory Electiv	•		•									
o8-BC-VPMM-161-		al cour	se "Molec	ular M	achines" for advanc							
mo1	ECTS	10	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course			P (10)								
	Method of assessment			Langu	age of assessment:	nd talk (approx. 15 mi German and/or Engl	nutes) ish					
	Modules successfully completed			o8-BC-MOLP								
	Additio	onal Info	ormation	Addit	ional information on	module duration: bl	ock taught lab course v	with approx. 40 working	g days.			

o8-BC-VPPD-161-	Practic	Practical course "Protein Degradation in Eukaryotes" for advanced students												
mo1	ECTS	10	Duration	1	1 semester	Method of grading   r	numerical grade	Modul level	graduate					
	Course	S		P (10)				,						
	Method	d of ass	essment		og (approx. 20 pages) and talk (approx. 15 minutes)									
					anguage of assessment: German and/or English									
	Module comple		essfully	o8-B0	B-BC-MOLP									
	Additio	nal Info	rmation	Addit	dditional information on module duration: block taught lab course with approx. 40 working days.									
08-BC-VPRB-161-	Practic	al cour	se "RNA B	iocher	nistry" for advance	ed students								
mo1	ECTS	10	Duration	1	1 semester	Method of grading   r	numerical grade	Modul level	graduate					
	Course	S		P (10)				•	-					
	Method	d of ass	essment			and talk (approx. 15 min t: German and/or Englis								
	Module comple		essfully	o8-B0	-MOLP									
	Additio	nal Info	ormation	Addit	ditional information on module duration: block taught lab course with approx. 40 working days.									
08-BC-VPSB-161-	Practic	al cour	se "Struct	ural B	al Biology" for advanced students									
mo1	ECTS	10	Duration	1	1 semester	Method of grading r	numerical grade	Modul level	graduate					
	Courses			P (10)										
	Method of assessment				Log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English									
	Modules successfully completed			o8-B0	o8-BC-MOLP									
	<u> </u>			Addit	Additional information on module duration: block taught lab course with approx. 40 working days.									
08-ACM2-161-m01	Bioino	rganic (	Chemistry											
	ECTS	5	Duration	1	1 semester	Method of grading r	numerical grade	Modul level	graduate					
	Course	S		S (3) Modu	le taught in: Germa	an or English		^						
	Method	thod of assessment			ination in groups o	approx. 45 to 90 minute f up to 3 candidates (15 t: German and/or Englis	to 30 minutes per cand		ach (20 to 30 minutes) or c) oral					
08-HKM1-152-m01	Organo	o- and B	iocatalys	s										
	ECTS	5	Duration	1	1 semester	Method of grading r	numerical grade	Modul level	graduate					
	Course			S (3)										
	Method of assessment			a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English										

08-OCM-NAT-161-	Modern	Aspect	ts of Natu	ral Pro	duct Chemistry and	Biological Chemistry					
mo1	ECTS	5	Duration	ı	1 semester	Method of grading   numerical grad	de	Modul level	graduate		
	Courses	S		S (3) Modu	S (3) Module taught in: German or English						
	Method	l of asse	essment	exami	a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate)  Language of assessment: German and/or English						
	Particip cation o			Amon	MA Chemie: unbegrenzt, Ma Biochemie: 20 places. Places will be allocated according to the number of subject semesters. mong applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintaied and places re-allocated by lot as they become available.						
08-MCM3-152-m01	Drug de	esign									
	ECTS	5	Duration	ı	1 semester	Method of grading   numerical grad	de	Modul level	graduate		
	Courses	S		S (2) - Modu	+ Ü (1) le taught in: Germa	n or English					
	Method	d of asse	essment		presentation with discussion (approx. 30 minutes) Language of assessment: German and/or English						
	Particip cation o			the sa will be ted by ding t	zo places. 4 places for students of the Master's degree programme Chemie (Chemistry): Places will be allocated according to the same number of subject semesters; students who have chosen Medizinische Chemie (Medicinal Chemistry) as their focu will be given preferential consideration; among applicants with the same number of subject semesters, places will be allocated by lot.; 6 places for students of the Master's degree programme Biochemie (Biochemistry): Places will be allocated according to the number of subject semesters; among applicants with the same number of subject semesters, places will be allocated by lot; a waiting list will be maintained and places re-allocated by lot as they become available.						
08-PH-KAC-152-	Clinical	l-analyt	ical Chem	istry							
mo1	ECTS	5	Duration	ı	1 semester	Method of grading   numerical grad	de	Modul level	undergraduate		
	Courses	S		V (3)							
	Method	d of asse	essment		n examination (app lage of assessment	rox. 120 minutes) German and/or English					
o8-PH-KACP-152-	Practica	al cours	e of clinic	al-ana	llytical Chemistry						
mo1	ECTS 5 Duratio			า	1 semester	Method of grading (not) successful	ully completed	Modul level	undergraduate		
	Courses	S		P (5)							
	Method of assessment			and a	Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical performance (2 to 4 random examinations) Language of assessment: German and/or English						

Functional Materia	ls (25 EC	TS cred	its)								
Compulsory Course	es (20 EC	TS cred	lits)								
o8-FU-Ma-	Materia	l Scien	ce 1 (Bas	ic intro	duction)						
Wi1-152-mo1	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses	5		V (3) -	+ Ü (1)						
			essment	exam (appr	written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) camination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presen pprox. 30 minutes) anguage of assessment: German and/or English						
o8-FMM-PA-161-	Project	Work									
mo1		5	Duratio	,	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Courses			P (10)							
	Method	of asse	essment		approx. 15 pages) an lage of assessment:						
08-OCM-FM-161-	Organic	Functional Materials									
mo1	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses	5		S (3)							
	Method of assessment			exam (appr Langu	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English						
o8-FMM-MP-161-	Lab Cou	ırse Ma	terial Sci	ence							
mo1	ECTS	5	Duratio		1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Courses	5		P (8)							
	Method	of asse	essment	and a		cal performance (2 to	4 random examinations)	15 minutes each	n, log approx. 5 to 10 pages each)		
<b>Compulsory Elective</b>	es (5 EC1	ΓS credi	its)								
o8-FU-Ma- Material Science 2 (The Material Groups)											
Wi2-152-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate		
	Courses			V (3) -							
	Method of assessment			exam (appr	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English						

08-FU-NT-152-m01	Chemic	Chemically and bio-inspired Nanotechnology for Material Synthesis											
	ECTS	5	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course			V (4)									
	Method	d of ass	essment	exam (appr	written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation approx. 30 minutes) anguage of assessment: German and/or English								
o8-FU-Mo-	Molecular Materials (Lecture)												
MaV-152-mo1	ECTS	5	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S		V (3)	+ S (1)								
	Method of assessment			exam (appr Langu	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral xamination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation approx. 30 minutes)] as well as talk (approx. 30 minutes), weighted 3:1 anguage of assessment: German and/or English								
03-FU-PM1-152-	Polyme	r Chem	istry 1 (Le	cture	and Practical Cours	se)							
mo1	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	S		V (2)	+ P (2)								
	Method		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)  Assessment offered: Once a year, winter semester  Language of assessment: German and/or English creditable for bonus									
03-FU-PM2-161-	Polyme	ers II											
mo1	ECTS	5	Duration	1	1 semester	Method of grading   numerical grade   Modul			graduate				
	Course			` '	S (2) + Ü (1)								
	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									
o8-PCM3-161-mo1	Nanoso	ale Ma	terials										
	ECTS	5	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S	,		S (2) + Ü (1) Module taught in: German or English								
	Method	d of 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-SCM1-152-m01	Supramolecular Chemistry (Basics)													
-	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	S	•	S (3)	(3)									
	Method	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									
o8-ACM3-161-mo1	Solid s	tate cho	emistry a	nd ino	ganic materials									
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	S		S (3)										
	Method	l of ass	essment	exam (appr	ination in groups of ox. 30 minutes)		approx. 15 minutes per candida		each (20 to 30 minutes) or c) oral oprox. 20 pages) or e) presentation					
Homogeneous Cata	alysis (2	ysis (25 ECTS credits)												
Compulsory Course	es (20 EC	TS cred	dits)											
o8-HKM1-152-mo1	Organo- and Biocatalysis													
	ECTS 5 Duratio			n	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses			S (3)		,								
	Method of assessment			exam	a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate)  Language of assessment: German and/or English									
08-HKM2-161-m01	Advanced organometallic chemistry and its application in homogeneous catalysis													
	ECTS	5	Duratio			Method of grading   numerical grade		Modul level	graduate					
	Courses			S (3) Module taught in: German or English										
	Method of assessment			a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes)  Language of assessment: German and/or English										
o8-HKM3AC-161-	Practic	al cours	se "Homo	geneo	us catalysis in Inorg	ganic Chemistry"								
mo1	ECTS	5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate					
	Course	S		P (6) Module taught in: German or English										
	Method of assessment			report on practical course (approx. 10 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English										

08-HKM30C-161-	Practical course "Homogeneous catalysis in Organic Chemistry"												
mo1	ECTS	5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Course	S		P (6) Modu	le taught in: Germar	n or English							
	Metho	d of asse	essment	repor	t on practical course		and talk (approx. 15 minutes)						
Compulsory Electiv	es (5 EC	TS cred	its)		age or ussessment	e e e e e e e e e e e e e e e e e e e							
	Advanced transition metal chemistry												
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		S (3)			<del>-</del>	'	, -				
			essment	exam (appr Langı	written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral amination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation oprox. 30 minutes) nguage of assessment: German and/or English								
08-PCM2-161-m01		ical Med	1		Reaction Dynamics								
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S			+ Ü (1) le taught in: Germar	n or English							
	Method	d of asse	essment	prox.	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes)  Language of assessment: German and/or English								
08-OCM-SYNT-161-	Moder	odern Synthetic Methods											
mo1	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		S (2) + Ü (1) Module taught in: German or English									
	Method	d of asse	essment	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes)  Language of assessment: German and/or English									
08-TCM2-161-m01	Basics	and App	olications	of Qu	antum Chemistry								
	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		S (2)	+ Ü (2)								
	Method of assessment			a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes)  Language of assessment: German and/or English									

03-FU-PM1-152-	Polymer Chen	nistry 1 (Lo	ecture	and Practical Course	2)						
mo1	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses		V (2)	+ P (2)							
	Method of ass	sessment	prox. Asses Langu	a) assessment and b) Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical assignments (2 to 4 random examinations)  Assessment offered: Once a year, winter semester  Language of assessment: German and/or English creditable for bonus							
<b>Medicinal Chemist</b>	ry (25 ECTS cre	dits)									
Compulsory Cours	es (15 ECTS cre	dits)									
08-MCM1-161-m01	Practical cour	se medici	nal che	emistry							
	ECTS 10	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Courses		P (10) Modu	ile taught in: Germar	n or English						
	Method of ass	sessment	and a	Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical assignments (2 to 4 random examinations) as well as report (30 to 50 pages)  Language of assessment: German and/or English							
08-MCM3-152-m01	Drug design	1									
	ECTS 5	S 5 Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	,	` ′	S (2) + Ü (1) Module taught in: German or English							
	Method of ass	sessment	presentation with discussion (approx. 30 minutes) Language of assessment: German and/or English								
	Participants a cation of plac		the sa will b ted b	ame number of subject	ect semesters; stude consideration; amon udents of the Master ject semesters; amo	nts who have chosen Medizinis g applicants with the same nur 's degree programme Biochem	sche Chemie (M nber of subject ie (Biochemistr umber of subjec	ces will be allocated according to ledicinal Chemistry) as their focus semesters, places will be allocay): Places will be allocated accorts semesters, places will be allocatilable.			
Compulsory Cours	es (10 ECTS cre	dits)									
o8-MCM2a-161-	Pharmaceutic	al/Medici	nal Ch	emistry 1							
mo1	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		V (3)								
	Method 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								

08-MCM2b-161-	Pharmaceutical/Medicinal Chemistry 2												
mo1	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S		V (3)	(3)								
	Method	d of ass	sessment	exam (appi	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes)  Language of assessment: German and/or English								
08-MBC-MSP-161-	Mass-Spectrometry and Proteomics												
mo1	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S			+ S (1) + P (2) ule taught in: Gerr	nan or English							
	Method	d of ass	sessment	to 30 to 40 Asse	a) written examination (approx. 45 to 90 minutes) or b) log (20 to 30 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) or e) presentation (20 to 40 minutes)  Assessment offered: Once a year, winter semester  Language of assessment: German and/or English								
	Particip cation		nd allo- es	67 pl	aces.								
Supramolecular Ch	emistry	(25 EC	TS credits	)									
Compulsory Course	es (10 EC	(10 ECTS credits)											
08-SCM1-152-m01	Supramolecular Chemistry (Basics)												
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	S	·	S (3)									
	Method	d of ass	sessment		a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) Language of assessment: German and/or English								
08-SCM2-161-m01	Supran	nolecul	ar Chemis	try (P	ractical Course)			'					
	ECTS	5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Course	S		P (6) Modi	P (6) Module taught in: German or English								
	Method	d of ass	sessment	Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical performance (2 to 4 random examinations)  Language of assessment: German and/or English									
	Module comple		essfully	08-S	CM <sub>1</sub>								

<b>Compulsory Electiv</b>	es (15 ECT:	S credit	s)									
08-SCM3-152-m01	Bioorgan	ic Chem	nistry									
	ECTS 5	[	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			S (3)		•		•				
	Method o	of asses	sment	exami	a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate)  Language of assessment: German and/or English							
08-SCM4-161-m01	Supramo	lecular	Chemis	try (Ad	y (Advanced Lab)							
	ECTS 5 Duratio			1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Courses			P (6) Modu	Module taught in: German or English							
	Method o	of asses	sment		resentation (approx. 20 minutes) anguage of assessment: German and/or English							
	Modules successfully completed			08-SC	S-SCM <sub>2</sub>							
	Additiona	al Inform	nation	Additi	Additional information on module duration: block taught lab course with approx. 20 working days.							
08-PCM5-161-m01	Physical (	Chemis	try of S	upram	olecular Assemblies	5						
	ECTS 5 Duratio			1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			S (2) - Modu	- Ü (1) le taught in: Germaı	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-ACM2-161-m01	Bioinorga	anic Che	emistry									
	ECTS 5	Г	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	,		S (3) Modu								
	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 an	ıd Appli	cations	of Qua	antum Chemistry							
	ECTS 5 Duratio		Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			S (2) -	- Ü (2)			•	·			
	Method of assessment			a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentatic (approx. 30 minutes)  Language of assessment: German and/or English								

08-0CM-FM-161-	Organi	Organic Functional Materials													
mo1	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate						
	Course	es		S (3)		•		•							
	Method of assessment			exam (app	ritten examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral mination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation prox. 30 minutes) guage of assessment: German and/or English										
08-PCM3-161-m01	Nanoscale Materials														
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate						
	Course	es	<del>'</del>		+ Ü (1) ule taught in: Germ	an or English			•						
	Metho	d of ass	essment	prox. Lang	30 minutes)	approx. 90 minutes) o t: German and/or Eng		f one candidate each (a	pprox. 20 minutes) or c) talk (ap-						
Theoretical Chemis	try (25	y (25 ECTS credits)													
Compulsory Course	es (15 EC	CTS cred	lits)												
08-TCM2-161-m01	Basics and Applications of Quantum Chemistry														
	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate						
	Course	25		S (2)	+ Ü (2)	•		•							
	Method of assessment			a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes)  Language of assessment: German and/or English											
o8-TCM3-161-mo1	Numerical Methods and Programming														
	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate						
	Course				+ 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) or examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentat (approx. 30 minutes) Language of assessment: German and/or English											
o8-TCM4-161-mo1	Quanti	um Dyna	amics												
	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate						
	Course				+ Ü (2)										
	Method of assessment			a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes)  Language of assessment: German and/or English											

Compulsory Electiv	es (10 E0	CTS cree	dits)									
08-TCM1-161-m01	Selecte	d Topic	s in Theo	retical	Chemistry							
	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	S	•	S (2) +	S (2) + Ü (2)							
	Method	l of asse	essment	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes)  Language of assessment: German and/or English								
08-TCAP1-161-m01	Theoret	tical Ch	emistry -	Project	t course quantum ch	nemistry						
	ECTS	5	Duratio	า	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Courses	S		P (5)								
	Method	l of asse	essment		resentation (approx. 30 minutes) anguage of assessment: German and/or English							
	Additio	nal Info	rmation	Additi	onal information on	module duration: bl	ock taught lab course with app	rox. 20 working	days.			
08-TCAP2-161-m01	08-TCAP2-161-m01 Theoretical Chemistry - Project course quantum dynamics											
	ECTS	5	Duratio	า	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Courses	S		P (5)								
	Method	l of asse	essment	presentation (approx. 30 minutes) Language of assessment: German and/or English								
	Additio	nal Info	rmation	Additional information on module duration: block taught lab course with approx. 20 working days.								
08-MCM3-152-m01	Drug de	esign										
	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses  Method of assessment  Participants and allocation of places			S (2) + Modu	- Ü (1) le taught in: Germar	n or English		,				
						ion (approx. 30 minu German and/or Engl						
				20 places. 4 places for students of the Master's degree programme Chemie (Chemistry): Places will be allocated according to the same number of subject semesters; students who have chosen Medizinische Chemie (Medicinal Chemistry) as their focus will be given preferential consideration; among applicants with the same number of subject semesters, places will be allocated by lot.; 6 places for students of the Master's degree programme Biochemie (Biochemistry): Places will be allocated according to the number of subject semesters; among applicants with the same number of subject semesters, places will be allocated by lot; a waiting list will be maintained and places re-allocated by lot as they become available.								

#### Additional qualifications (15 ECTS credits) Subfield Additional qualifications Compulsory Electives Focuses (5 ECTS credits) In the sub-area "Zusätzliche Kompetenzen aus den Schwerpunkten" ("Additional Skills from the Focus Area"), students may use a module of their choice from the Focus area that they are not using in the area of mandatory electives 1. Molecular Biology laboratory course 08-BC-MOLP-152mo1 **ECTS** 10 Duration 1 semester Method of grading | numerical grade Modul level undergraduate Courses P (5) Method of assessment | a) written examination (approx. 45 to 90 minutes) or b) log (10 to 20 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 to 20 minutes per candidate) or e) presentation (20 to 30 minutes) or f) practical examination (on average approx. 2 hours; time to complete will vary according to subject area but will not exceed a maximum of 4 hours) Assessment offered: Once a year, winter semester Language of assessment: German and/or English Participants and allo-Biochemie (Biochemistry), Bachelor's: 24 places. Selection process Biochemie (Biochemistry), Bachelor's (180 ECTS credits): cation of places Should the number of applications exceed the number of available places, places will be allocated according to the following quotas: Quota 1 (two thirds of places): current average grade of successfully completed modules; among applicants with the same average grade, places will be allocated by lot. Quota 2 (one third of places): number of subject semesters of the respective applicant; among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated as they become available. Chemie (Chemistry), Master's: 6 places. Selection process Chemie (Chemistry), Bachelor's (120 ECTS credits): Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available. 08-HKM1-152-m01 | Organo- and Biocatalysis ECTS 15 Duration Method of grading | numerical grade Modul level graduate 1 semester S (3) Courses 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-MCM3-152-mo1 Drug design ECTS Duration 1 semester Method of grading | numerical grade Modul level graduate $S(2) + \ddot{U}(1)$ Courses Module taught in: German or English presentation with discussion (approx. 30 minutes) Method of assessment Language of assessment: German and/or English

	ted by lot; a waiting list will be maintained and places re-allocated by lot as th	ney become available.	
-		· · · · · · · · · · · · · · · · · · ·	

20 places. 4 places for students of the Master's degree programme Chemie (Chemistry): Places will be allocated according to

the same number of subject semesters; students who have chosen Medizinische Chemie (Medicinal Chemistry) as their focus will be given preferential consideration; among applicants with the same number of subject semesters, places will be allocated by lot.; 6 places for students of the Master's degree programme Biochemie (Biochemistry): Places will be allocated according to the number of subject semesters; among applicants with the same number of subject semesters, places will be allocated according to the number of subject semesters.

JMU Würzburg • generated 20-Okt-2023 • exam. reg. data record 88|032|-|-|H|2016

page 20 / 53

Participants and allo-

cation of places

Master's with 1 major Chemistry (2016)

08-PH-KAC-152-	Clinical	-analyti	cal Chem	istry								
mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	5		V (3)	V (3)							
	Method	l of asse	ssment	written examination (approx. 120 minutes)								
					Language of assessment: German and/or English							
08-PH-KACP-152-					al-analytical Chemistry							
mo1			Duration		1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate			
	Courses			P (5)	(2)							
	Method	l of asse	ssment	and as	ssessment of praction		4 random examinations)	15 minutes each	n, log approx. 5 to 10 pages each)			
08-SCM3-152-m01	Bioorga	anic Che	mistry									
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5		S (3)				- 8				
	Method	l of asse	ssment						ach (20 to 30 minutes) or c) oral			
				examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English								
08-SCM1-152-m01	Supramolecular Chemistry (Basics)											
	ECTS 5 Duratio		1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	5		S (3)								
	Method of assessment			a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) Language of assessment: German and/or English								
o8-FU-Mo-	Molecu	lar Mate	rials (Le	(Lecture)								
MaV-152-mo1	ECTS	5	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	5		V (3) +	- S (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)] as well as talk (approx. 30 minutes), weighted 3:1 Language of assessment: German and/or English								
08-FU-NT-152-m01	Chemic	ally and	bio-insp	ired Na	anotechnology for N	Naterial Synthesis						
			Duration	ו	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	5		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-Ma-	Material	l Scien	ce 1 (Basi	c intro	duction)								
Wi1-152-m01	ECTS	5	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses			V (3) ·	V (3) + Ü (1)								
	Method	of asse	essment	exam (appr	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes)  Language of assessment: German and/or English								
o8-FU-Ma-	Material	l Scien	ce 2 (The	Mater	Material Groups)								
Wi2-152-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses			V (3) -	+ Ü (1)								
				exam (appr Langu	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes)  Language of assessment: German and/or English								
03-FU-PM1-152-	Polymer	Chem	istry 1 (Le	cture	ture and Practical Course)								
mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses			V (2) ·	V (2) + P (2)								
	Method	01 433	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)  Assessment offered: Once a year, winter semester  Language of assessment: German and/or English  creditable for bonus									
o8-PCM1a-161-	Laser Sp	Laser Spectroscopy											
mo1	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		•	S (2) + Ü (1) Module taught in: German or English									
	Method	of asse	essment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) Language of assessment: German and/or English									
08-PCM1b-161-	Advance	ed Phys	sical Che	mistry	(Lab)								
mo1	ECTS	5	Duratio	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Courses	Courses			P (4) Module taught in: German or English								
	Method	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								
	Addition	nal Info	rmation	Addit	ional information on	module duration: bl	ock taught lab course with app	rox. 20 working	g days.				

08-PCM2-161-m01	Statistical Mechanics and Reaction Dynamics											
	ECTS	5	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	!S			S (2) + Ü (1) Module taught in: German or English							
	Method	d of 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	Nanoscale Materials											
	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	!S		S (2) - Modu	+ Ü (1) le taught in: Germ	an or English						
	Method	d of ass	essment	prox. Langu	written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (aprox. 30 minutes) anguage of assessment: German and/or English reditable for bonus							
o8-PCM4-161-mo1	1 Ultrafast spectroscopy and quantum-control											
	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) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes)  Language of assessment: German and/or English								
	other p	rerequi	sites	Prior o	Prior completion of modules o8-PCM1a and o8-PCM1b recommended.							
08-PCM5-161-m01												
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course			S (2) + Ü (1) Module taught in: German or English								
	Method	d of ass	essment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes) Language of assessment: German and/or English								
08-PCM6-161-m01	Physic	al Chem	istry (Adv	/anced	Lab)							
	ECTS	5	Duration		1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course	!S		P (4) Module taught in: German or English								
	Method of assessment			presentation (approx. 20 minutes) Language of assessment: German and/or English								
	Additio	nal Info	rmation	Additional information on module duration: block taught lab course with approx. 20 working days.								

08-TCM2-161-m01	Basics	and App	lications	of Qu	antum Chemistry						
	ECTS	5	Duration	1	1 semester	Method of grading numeric	al grade	Modul level	graduate		
	Courses	S		S (2)	+ Ü (2)	·					
				exam (appr	) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral xamination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentatic approx. 30 minutes) anguage of assessment: German and/or English						
o8-TCM3-161-mo1	Numerical Methods and Programming										
	ECTS	5	Duration	1	1 semester	Method of grading numeric	al grade	Modul level	graduate		
	Courses	S		S (2)	+ Ü (2)			•			
	Method of assessment			exam (appr	) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral xamination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation approx. 30 minutes) anguage of assessment: German and/or English						
o8-TCM4-161-mo1	Quantu	ım Dynaı	mics								
	ECTS	5	Duration	1	1 semester	Method of grading numeric	al grade	Modul level	graduate		
	Courses	S		S (2)	+ Ü (2)						
	Method of assessment			a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presen (approx. 30 minutes)  Language of assessment: German and/or English							
08-TCM1-161-m01											
	ECTS	5	Duration	1	1 semester	Method of grading numeric	al grade	Modul level	graduate		
	Courses	S		S (2) + Ü (2)							
	Method	l of asse	ssment	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentatio (approx. 30 minutes)  Language of assessment: German and/or English							
08-TCAP1-161-m01	Theoret	tical Che	emistry -	Projec	t course quantum	chemistry					
	ECTS 5 Duratio			<u> </u>		Method of grading (not) su	ccessfully completed	Modul level	graduate		
	Courses	s		P (5)							
	Method of assessment			presentation (approx. 30 minutes) Language of assessment: German and/or English							
	Additional Information			Addit	ional information o	on module duration: block taugl	ht lab course with app	rox. 20 working	g days.		

08-TCAP2-161-m01	Theore	tical Ch	emistry -	Proiec	t course quantum d	vnamics						
		5	Duration		1 semester	Method of grading (not) successfully completed	Modul level	graduate				
	Course		Daration	P (5)	1 Jennester	method of grading (not) successfully completed	Modulitevel	Sidduite				
			essment		ntation (approx. 30	minutes)						
	Method	. OI U.S.S	Cooment			German and/or English						
	Additio	nal Info	rmation			n module duration: block taught lab course with app	orox. 20 working	g days.				
08-ACM1-161-m01	Advanc	ed Inor	ganic Che	mistry	nistry							
	ECTS 10 Duration			1	2 semester	Method of grading   numerical grade	Modul level	graduate				
	Course	S	l.	S (3) -	- S (3)		•	·				
	Method of assessment			exam (appr	written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation approx. 30 minutes)  anguage of assessment: German and/or English							
08-ACPM-161-m01	Inorgar	nic Che	c Chemistry practical course for advanced									
	ECTS	10	Duratio	1	1 semester	Method of grading (not) successfully completed	Modul level	graduate				
	Course	Courses			P (24) Module taught in: German or English							
	Method	d of ass	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	onal information or	n module duration: block taught lab course with app	rox. 40 working	g days.				
08-ACM2-161-m01	Bioinor	ganic C	hemistry									
	ECTS	5	Duratio	า	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		S (3) Modu	le taught in: Germa	n or English						
	Method	d of ass	essment	exam	nation in groups of	pprox. 45 to 90 minutes) or b) oral examination of o up to 3 candidates (15 to 30 minutes per candidate German and/or English		ach (20 to 30 minutes) or c) oral				
o8-ACM3-161-mo1	Solid st	tate che	emistry aı	ıd inor	ganic materials							
	ECTS 5 Duratio			1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses			S (3)								
	Method of assessment			a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes)  Language of assessment: German and/or English								

08-OCM-SYNT-161-	Modern	Synthe	etic Meth	ods								
mo1	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5			S (2) + Ü (1) Module taught in: German or English							
	Method	of asse	essment	exam (appr	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes)  Language of assessment: German and/or English							
08-OCM-AKP1-161-	Advanced Research Project Organic Chemistry											
mo1	ECTS	10	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Courses			P (20) Modu	le taught in: Germar	n or English						
	Method	of asse	essment		og (approx. 15 to 20 pages) and talk (approx. 15 minutes) Inguage of assessment: German and/or English							
08-OCM-NAT-161-	Modern	Aspect	s of Natu	ral Pro	duct Chemistry and	<b>Biological Chemistr</b>	у					
mo1	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5	,	S (3) Modu	le taught in: Germar	n or English						
	Method of assessment			exam	ination in groups of		15 to 30 minutes per candidate		ach (20 to 30 minutes) or c) oral			
	Particip cation o			MA Chemie: unbegrenzt, Ma Biochemie: 20 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available.								
08-OCM-FM-161-	Organic Functional Materials											
mo1	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses	5		S (3)								
				a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes)  Language of assessment: German and/or English								
o8-BC-		lar Biol	ogy for A	dvance	d Students							
MOLMC-161-mo1	ECTS 5 Duratio				1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			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) Language of assessment: German and/or English								

08-BC-VPMM-161-	Practical course "Molecular Machines" for advanced students											
mo1	ECTS 10	Duration	1 semester	Method of grading numerical grade	Modul level	graduate						
	Courses		P (10)		,							
	Method of ass	sessment		and talk (approx. 15 minutes)								
			<u> </u>	nt: German and/or English	,							
	Modules succ	essfully	o8-BC-MOLP									
	completed	<b>.:</b>	A d d i ti a u a l i u fa u u a ti a u	Additional information on module duration: block taught lab course with approx. 40 working days.								
08-BC-VPPD-161-				on module duration: block laught lab course will otes" for advanced students	th approx. 40 working	days.						
mo1	ECTS 10	Duration		Method of grading   numerical grade	Modul level	graduate						
	Courses		P (10)	Method of grading   numerical grade	Modulitevel	graduate						
				and talk (approx. 15 minutes)		-						
	Method of ass	Sessifient		nt: German and/or English								
	Modules succ completed	essfully	o8-BC-MOLP	8-BC-MOLP								
	Additional Inf			dditional information on module duration: block taught lab course with approx. 40 working days.								
08-BC-VPRB-161-		se "RNA B	'RNA Biochemistry'' for advanced students									
mo1	ECTS 10	Duration	1 semester	Method of grading   numerical grade	Modul level	graduate						
	Courses		P (10)									
	Method of ass	sessment		and talk (approx. 15 minutes) nt: German and/or English								
	Modules succ	essfully	o8-BC-MOLP									
	Additional Inf	ormation	Additional information on module duration: block taught lab course with approx. 40 working days.									
08-BC-VPSB-161-	Practical cour	se "Struct	ural Biology" for advan	ced students	,							
mo1	ECTS 10	Duration	1 semester	Method of grading   numerical grade	Modul level	graduate						
	Courses		P (10)									
	Method of ass	sessment	Log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English									
	Modules succ	essfully	o8-BC-MOLP									
	Additional Inf	ormation	Additional information	on module duration: block taught lab course wit	th approx. 40 working	days.						
08-FMM-MP-161-	Lab Course M	aterial Sci	ence		,							
mo1	ECTS 5	Duration	n 1 semester Method of grading (not) successfully completed Modul level graduate									
	Courses		P (8)		-							
	Method of ass	sessment	Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical performance (2 to 4 random examinations)  Language of assessment: German and/or English									

08-FMM-PA-161-	Project	Work	1			,							
mo1	ECTS	5	Duratio	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Course	:S	•	P (10)		•		•					
	Method	d of ass	essment		Log (approx. 15 pages) and talk (approx. 15 minutes)								
			1	Langu	_anguage of assessment: German and/or English								
03-FU-PM2-161-	Polymers II												
mo1	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses				$S(2) + \ddot{U}(1)$								
	Method of assessment			prox.	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes)  Language of assessment: German and/or English								
08-HKM2-161-m01	Advanc	ced orga	nometall	ic cher	nistry and its applic	ation in homogeneo	us catalysis	'					
	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			S (3) Modu	le taught in: Germar	n or English							
	Method	d of ass	essment	exami (appr	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes)  Language of assessment: German and/or English								
08-HKM3AC-161-	Practic	Practical course "Homogeneous catalysis in Inorganic Chemistry"											
mo1	ECTS	5	Duratio	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Courses			P (6) Modu	le taught in: Germai	n or English							
	Method of assessment			report on practical course (approx. 10 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English									
o8-HKM3OC-161-	Practic	al cours	e "Homo	geneou	ıs catalysis in Orga	nic Chemistry"		'					
mo1	ECTS	5	Duratio	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Course	S		P (6) Module taught in: German or English									
	Method	d of ass	essment	report Langu	report on practical course (approx. 10 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English								
08-HKM4-161-m01	Advanc	ed tran	sition me	tal che	mistry								
	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course	·S		S (3)									
	Method of assessment			a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentati (approx. 30 minutes) Language of assessment: German and/or English									

08-MCM1-161-m01	Practic	Practical course medicinal chemistry											
	ECTS	10	Duratio	1	1 semester	Method of grading (not) successfully completed	Modul level	graduate					
	Course	S		P (10) Modu	le taught in: Germa	n or English							
	Method	d of ass	essment	and a	ssessment of practi	pre and post-experiment examination talks approxical assignments (2 to 4 random examinations) as vectors and/or English							
08-MCM2a-161-	Pharma	aceutic	al/Medici	nal Ch	emistry 1								
mo1	ECTS	5	Duratio	า	1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses			V (3)	,								
	Method of assessment			exam (appr	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English								
o8-MCM2b-161-	Pharmaceutical/Medicinal Chemistry 2												
mo1	ECTS 5 Duratio			า	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) presentatio (approx. 30 minutes) Language of assessment: German and/or English									
08-MBC-MSP-161-	Mass-S	pectro	metry and	Prote	omics								
mo1	ECTS	5	Duratio	า	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			a) written examination (approx. 45 to 90 minutes) or b) log (20 to 30 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) or e) presentation (20 to 40 minutes)  Assessment offered: Once a year, winter semester  Language of assessment: German and/or English									
	Participants and allocation of places				aces.								

08-SCM2-161-m01	Supran	nolecul	ar Chemis	try (Pr	actical Course)				-		
	ECTS	5	Duratio	า	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Course	S		P (6) Modu	le taught in: Germ	an or English					
	Method	d of ass	essment	and a	ssessment of prac		4 random examinations)	. 15 minutes eac	h, log approx. 5 to 10 pages each)		
	Module comple		essfully	08-SC	CM1						
08-SCM4-161-m01	Supran	nolecula	ar Chemis	try (Ad	lvanced Lab)						
	ECTS	5	Duratio		1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Course	S		P (6) Modu	le taught in: Germa	an or English					
	Method	d of ass	essment		oresentation (approx. 20 minutes) Language of assessment: German and/or English						
	Module comple		essfully	08-SC	D8-SCM2						
	Additio	nal Info	rmation	Additi	onal information o	on module duration: blo	ck taught lab course with ap	prox. 20 workinį	days.		
Subfield Other add	itional q	Jualifica	tions (10	ECTS c	redits)						
08-WRM1-161-m01	Tutorin	g 1 (pra	ctical cou	ırse)							
	ECTS	5	Duratio	า	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Course	S		T (3)							
	Method	d of ass	essment			oaration of status and/o t: German and/or Engli	r wrap-up reports, approx. 10 sh	oo hours total)			
	other p	rerequi	sites			e activities performed u In the tutorial held in m		ntract for this mo	odule. The tutorial must accompa-		
08-WRM2-161-m01	Tutorin	g 2 (pra	ctical co	ırse)							
	ECTS	5	Duratio	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Course	S		T (3)							
	Method	d of ass	essment			oaration of status and/o t: German and/or Engli	r wrap-up reports, approx. 10 sh	oo hours total)			
	other p	rerequi	sites	It is no	ot permitted to use lifferent course tha	e activities performed u In the tutorial held in m	nder a research assistant cor odule o8-WRM1.	ntract for this mo	odule. The tutorial must accompa-		

08-APM1-161-m01	Foreign	Studie	s (short)			,						
	ECTS	5	Duration	า	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course	S		P (o) Module taught in: German and/or English and potentially language of the respective country								
	Method	l of asse	essment	a) report (10 to 20 pages) or b) talk (10 to 20 minutes) Language of assessment: German and/or English and potentially language of the respective country								
	other p	rerequis	sites	May r	May not be combined with o8-APM2.							
	Additional Information			Addit	ional information on	module duration: bl	ock placement abroad with a d	luration of no le	ess than 20 working days.			
08-APM2-161-m01	Foreign	Studie	s (long)									
	ECTS	10	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course	S		P (o) Modu	le taught in: Germar	n and/or English and	potentially language of the res	pective country	1			
	Method	l of asse	essment		a) report (15 to 30 pages) or b) talk (15 to 30 minutes) Language of assessment: German and/or English and potentially language of the respective country							
	other prerequisites			May not be combined with o8-APM1.								
	Additio	nal Info	rmation	Addit	ional information on	module duration: bl	ock placement abroad with a d	luration of no le	ess than 40 working days.			
o8-CHPM1-161-	Chemistry-related competences outside of the Natural Sciences											
mo1	ECTS 5 Duratio			1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course	S		No courses assigned to module								
	Method of assessment			a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes)  Language of assessment: German and/or English								
	other p	rerequis	sites	Please consult with course advisory service in advance.								
o8-CHPM2-161-	Chemis	try-rela	ited comp	etenc	es within the Natura	l Sciences						
mo1	ECTS	5	Duration	า	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course	S		No co	urses assigned to m	odule						
	Method of assessment			a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes)  Language of assessment: German and/or English								
	other p	rerequis	uisites Please consult with course advisory service in advance.									

o8-CHPM3-161-	Chemistry-re	Chemistry-related competences outside of the Natural Sciences acquired abroad											
mo1	ECTS 5	Duratio	n 1 semester	Method of gradir	ng (not) successfully completed	Modul level	graduate						
	Courses			No courses assigned to module Module taught in: German and/or English and potentially language of the respective country									
	Method of as	sessment	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes)  Language of assessment: German and/or English and potentially language of the respective country										
	other prerequ	uisites	Please consult with course advisory service in advance.										
o8-CHPM4-161-	Chemistry-re	lated comp	etences within the N	atural Sciences acquire	ed abroad								
mo1	ECTS 5	Duratio	n 1 semester	Method of gradir	ng (not) successfully completed	Modul level	undergraduate						
	Courses			No courses assigned to module Module taught in: German and/or English and potentially language of the respective country									
	Method of as	ssessment	examination in grou (approx. 30 minutes	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes)  Language of assessment: German and/or English and potentially language of the respective country									
	other prerequ	uisites	Please consult with	course advisory service	in advance.	•							
Thesis (30 ECTS c	redits)												
08-MA-161-m01	Master-Thesis Chemistry												
	ECTS 30	Duratio	n 1 semester	Method of gradir	ng numerical grade	Modul level	graduate						
	Courses	'	No courses assigned to module										
	Method of as	sessment	Master's thesis (approx. 60 to 80 pages) Language of assessment: German and/or English										
	other prerequ	uisites	Where applicable, specific modules as specified by supervisor.										
	Additional In	formation	Time to complete: 6 months.										
vant FSB (subject-	wing areas are of specific provisi	designed fo	or students of Chemis	try who take part in an e	exchange programme in accordar	nce with the pro	visions of Annex DA of the rele-						
<b>Subfield Courses</b>	at partner univ	ersity abro	ad (5 ECTS credits)										
03-TR-152-m01	Toxicology a	nd legal st	udies										
	ECTS 3	Duratio	n 1 semester	Method of gradir	ng numerical grade	Modul level	undergraduate						
	Courses		V (1) + V (1)										
	Method of as	sessment	written examination (approx. 90 minutes)										
	Referred to in	n LPO I	§ 22    Nr. 1 h) § 22    Nr. 2 f) § 22    Nr. 3 f)										

08-VPM-DA-161-	Advanc	ed che	mical pra	ctical c	ourse			_			
mo1	ECTS	2	Duratio	n	1 semester	Method of grading (not) successfully completed	Modul level	graduate			
	Course	S	•	P (3)	(3)						
	Method	d of ass	essment		report (approx. 3 pages) Language of assessment: German and/or English						
Subfield Courses a	t partne	r unive	rsity abroa	ad (30	ECTS credits)						
08-VPU-161-m01	Qualifications - Partner University										
	ECTS 30 Duratio			n	1 semester	Method of grading (not) successfully completed	Modul level	graduate			
	Courses			No co	urses assigned to	module					
	Method	d of ass	essment			ed by partner university abroad					
						t: German and/or language spoken at partner unive	rsity abroad				
Compulsory Electiv	other p					rse advisory service in advance.					
Students must take visions) Annex DA), Inorganic Chemistr	, provisi	ons on	available	combi	as well as one foc nations are set out	us with 30 ECTS credits (focuses 1 and 2 pursuant to in Section 3 Subsection 2 Sentence 8 FSB.	o Section 3 Subs	section 2 FSB (subject-specific pro-			
Compulsory Course	es (20 E0	CTS cre	dits)								
08-ACM1-161-m01	Advanc	ed Ino	rganic Che	emistry	/						
	ECTS	10	Duratio	n	2 semester	Method of grading numerical grade	Modul level	graduate			
	Course	S		S (3)	S (3) + S (3)						
	Method of assessment			exam (appr	ination in groups o ox. 30 minutes)	approx. 90 to 180 minutes) or b) oral examination o f up to 3 candidates (approx. 15 minutes per candic t: German and/or English					
08-ACPM-161-m01	Inorgai	nic Che	mistry pra	ctical	course for advance	ed					
	ECTS	10	Duratio	n	1 semester	Method of grading (not) successfully completed	Modul level	graduate			
	Course	S		P (24) Modu	lle taught in: Germ	an or English					
	Method of assessment			report on practical course (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English							
	Additional				ional information c	on module duration: block taught lab course with ap	prox. 40 workin	g days.			

<b>Compulsory Electiv</b>	es (5 or	10 ECTS	credits)								
08-TCM2-161-m01	Basics	and Ap	plications	of Qu	antum Chemistry						
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		S (2) -	+ Ü (2)						
	Method of assessment			exam (appr	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English						
08-ACM2-161-m01	Bioino	rganic C	hemistry								
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		S (3) Modu	le taught in: Germa	n or English					
	Method of assessment a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes per candidate)  Language of assessment: German and/or English										
08-ACM3-161-m01	Solid s	tate che	emistry aı	nd inor	ganic materials						
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		S (3)							
	Method	d of ass	essment	exam (appr	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentati (approx. 30 minutes) Language of assessment: German and/or English						
08-HKM2-161-m01	Advanc	ed orga	nometall	ic cher	nistry and its appli	cation in homogeneo	us catalysis				
	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		S (3) Modu	le taught in: Germa	n or English		•			
	Method of assessmen				a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes)  Language of assessment: German and/or English						

Organic Chemistry	(25 or 30	ECTS cre	edits)									
Compulsory Course	es (15 ECTS	S credits	<del>)</del>									
08-OCM-SYNT-161-	Modern S	Syntheti	c Meth	ods								
mo1	ECTS 5	, D	uration	1	1 semester	Method of grading num	erical grade	Modul level	graduate			
	Courses				S (2) + Ü (1) Module taught in: German or English							
				exam (appr	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes)  Language of assessment: German and/or English							
08-OCM-AKP1-161-	Advanced	d Resear	ch Proj	ect Or	ganic Chemistry							
mo1	ECTS 1	.о С	uration	<u> </u>	1 semester	Method of grading (not)	successfully completed	Modul level	graduate			
	Courses			P (20) Modu	le taught in: Germa	n or English						
	Method o	of assess	sment	Log (a Langu	approx. 15 to 20 pag lage of assessment	ges) and talk (approx. 15 mi : German and/or English	nutes)					
<b>Compulsory Electiv</b>	es (10 or 1	15 ECTS o	credits)									
08-HKM1-152-m01	Organo-	Organo- and Biocatalysis										
	ECTS 5 Duration			1	1 semester	Method of grading num	erical grade	Modul level	graduate			
	Courses			S (3)								
	Method o	of assess	sment	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-PH-KACP-152-	Practical	course	of clinic	cal-ana	lytical Chemistry							
mo1	ECTS 5	; D	uration	า	1 semester	Method of grading (not)	successfully completed	Modul level	undergraduate			
	Courses			P (5)	,			,				
				and a	ssessment of practi	pre and post-experiment exical performance (2 to 4 rar : German and/or English	xamination talks approx. ndom examinations)	15 minutes eac	h, log approx. 5 to 10 pages each)			
08-SCM3-152-m01	Bioorgan	ic Chem	istry									
	ECTS 5	; D	uration		1 semester	Method of grading num	erical grade	Modul level	graduate			
	Courses			S (3)								
	Method of assessment			a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English								

08-SCM1-152-m01	Supramolecular Chemistry (Basics)							
	ECTS 5 Duratio		1 1 50	emester	Method of grading	numerical grade	Modul level	graduate
	Courses	<u>,                                      </u>	S (3)					
	Method of assessment		a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) Language of assessment: German and/or English					
08-TCM2-161-m01	Basics and Applications of Quantum Chemistry							
	ECTS 5 Duration		1 1 50	emester	Method of grading	numerical grade	Modul level	graduate
	Courses		$S(2) + \ddot{U}(2)$					
	Method of	assessment	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes)  Language of assessment: German and/or English					
08-OCM-NAT-161- m01	Modern Aspects of Natural Product Chemistry and Biological Chemistry							
	ECTS 5	Duratio	1 1 50	emester	Method of grading	numerical grade	Modul level	graduate
	Courses		S (3) Module taught in: German or English					
	Method of	assessment	a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate)  Language of assessment: German and/or English					
	Participant cation of pl		MA Chemie: unbegrenzt, Ma Biochemie: 20 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available.					
08-OCM-FM-161- m01	Organic Functional Materials							
	ECTS 5	Duratio	1 1 50	emester	Method of grading	numerical grade	Modul level	graduate
	Courses	,	S (3)					
	Method of	assessment	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes)  Language of assessment: German and/or English					
Physical Chemistry	/ (25 or 30 E	CTS credits)						
Compulsory Course	es (20 ECTS	credits)						
08-PCM1a-161- m01	Laser Spectroscopy							
	ECTS 5	Duratio	1 1 50	emester	Method of grading	numerical grade	Modul level	graduate
	Courses	,	S (2) + Ü ( Module ta	(1) aught in: Germa	ın or English			
	Method of	assessment			pprox. 90 minutes) or : German and/or Engli	b) oral examination of sh	one candidate each (a	pprox. 20 minutes)

08-PCM1b-161-	Advanc	Advanced Physical Chemistry (Lab)										
mo1	ECTS	5	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course	S		P (4) Modu	O (4) Module taught in: German or English							
				and a	Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical performance (2 to 4 random examinations)  Language of assessment: German and/or English							
	Additio	nal Info	ormation	Addit	Additional information on module duration: block taught lab course with approx. 20 working days.							
08-PCM2-161-m01	Statistical Mechanics and Reaction Dynamics											
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			+ Ü (1) Ile taught in: Germa	an or English		'	•			
	Method of assessment			prox.	30 minutes)	approx. 90 minutes) o t: German and/or Eng	·	ndidate each (a	pprox. 20 minutes) or c) talk (ap-			
08-PCM6-161-m01	Physica	al Chen	nistry (Adv	anced	Lab)							
	ECTS	5	Duration	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course	S		P (4) Modu	P (4) Module taught in: German or English							
	Method of assessment				ntation (approx. 20 uage of assessment	o minutes) t: German and/or Eng	lish					
	Additio	nal Info	ormation	Addit	ional information o	n module duration: b	lock taught lab course with app	rox. 20 working	g days.			
<b>Compulsory Electiv</b>	es (5 or	10 ECTS	S credits)									
o8-FU-Ma-	Materia	al Scien	ice 1 (Basi	c intro	duction)							
Wi1-152-m01	ECTS	5	Duration	1	1 semester	Method of grading	undergraduate					
	Course	S		V (3) ·	+ Ü (1)	'		•				
	Method	d of ass	essment	exam (appr	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English							
08-PCM3-161-m01	Nanoso	ale Ma	terials									
	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) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) tal prox. 30 minutes) Language of assessment: German and/or English creditable for bonus					pprox. 20 minutes) or c) talk (ap-			

08-PCM4-161-m01	Ultrafa	st spec	troscopy a	and qu	antum-control							
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			S (2) + Ü (1) Module taught in: German or English							
	Method	d of ass	essment	prox.	30 minutes)	approx. 90 minutes) on t: German and/or Engl	•	one candidate each (a	pprox. 20 minutes) or c) talk (ap-			
	other p	rerequi	sites	Prior	Prior completion of modules o8-PCM1a and o8-PCM1b recommended.							
08-PCM5-161-m01	Physica	al Chem	istry of S	upram	olecular Assemblie	es						
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses				+ Ü (1) ıle taught in: Germa	an or English		•				
	Method	d of ass	essment	prox.	written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes) or c) talk (approx.							
08-TCM2-161-m01	Basics	and Applications of Quantum Chemistry										
	ECTS 5 Duratio			1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S	,	S (2)	+ Ü (2)							
	Method of assessment			exam (appr	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) prese (approx. 30 minutes)  Language of assessment: German and/or English							
o8-TCM3-161-mo1	Numeri	ical Met	hods and	Progr	amming	,		'				
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (2) + Ü (2)								
	Method of assessment				a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English							
08-TCM1-161-m01	Selecte	ed Topic	s in Theo	retical	Chemistry							
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S	,	S (2)	+ Ü (2)							
	Method	d of ass	essment	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes)  Language of assessment: German and/or English								

08-TCAP1-161-m01	Theoretical	Chemistry -	Projec	t course quantum o	chemistry		1					
	ECTS 5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Courses		P (5)									
	Method of a	ssessment		entation (approx. 30								
				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			Project course quantum dynamics									
	ECTS 5	Duratio	,	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Courses		P (5)									
			Lang		t: German and/or Engl							
	Additional Ir			ional information o	n module duration: bl	ock taught lab course with app	orox. 20 working	g days.				
08-FMM-MP-161-	Lab Course I	Material Sci	ence									
mo1	ECTS 5	Duratio	n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Courses		P (8)									
	Method of a	ssessment	and a	Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical performance (2 to 4 random examinations)  Language of assessment: German and/or English								
Biochemistry (25 or	r 30 ECTS cre	dits)										
Compulsory Course	s (15 ECTS cr	edits)										
08-BC-MOLP-152-	Molecular B	iology labo	ratory	course								
mo1	ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		P (5)	•			•					
	Method of a	ssessment	to 30 tion ( area Asses Langi	minutes) or d) oral 20 to 30 minutes) obut will not exceed ssment offered: Onc uage of assessment	examination in group or f) practical examinat a maximum of 4 hours ce a year, winter seme t: German and/or Engl	s of up to 3 candidates (approxition (on average approx. 2 hous) ster ish	x. 15 to 20 minu rs; time to comp	nation of one candidate each (20 tes per candidate) or e) presenta- plete will vary according to subject				
	Participants cation of pla		Shou quota same tive a be m Chem alloca	ld the number of ap as: Quota 1 (two thin average grade, pla applicant; among ap aintained and place nie (Chemistry), Mas ated according to th	oplications exceed the rds of places): current tees will be allocated be plicants with the sames re-allocated as they ster's: 6 places. Selective number of subject series.	number of available places, p average grade of successfully by lot. Quota 2 (one third of pla te number of subject semester become available. tion process Chemie (Chemistr	laces will be all completed mod ices): number of s, places will be y), Bachelor's (2 with the same no	y), Bachelor's (180 ECTS credits): ocated according to the following lules; among applicants with the f subject semesters of the respecallocated by lot. A waiting list will 120 ECTS credits): Places will be umber of subject semesters, plast they become available.				

08-BC-	Molecu	lar Biol	ogy for A	dvance	d Students								
MOLMC-161-mo1	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	5		V (2) -	$V(2) + \ddot{U}(1)$								
				exami (appr	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English								
Compulsory Electiv	es (10 01	15 ECT	S credits)	)									
08-HKM1-152-m01	Organo	Organo- and Biocatalysis											
	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			S (3)									
			essment	exam	written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral camination in groups of up to 3 candidates (15 to 30 minutes per candidate) anguage of assessment: German and/or English								
08-MCM3-152-m01													
	ECTS	5	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	5			S (2) + Ü (1) Module taught in: German or English								
	Method	l of asse	essment			sion (approx. 30 minu German and/or Engl							
	Particip cation o			the sa will be ted by ding t	20 places. 4 places for students of the Master's degree programme Chemie (Chemistry): Places will be allocated according to the same number of subject semesters; students who have chosen Medizinische Chemie (Medicinal Chemistry) as their focus will be given preferential consideration; among applicants with the same number of subject semesters, places will be allocated by lot.; 6 places for students of the Master's degree programme Biochemie (Biochemistry): Places will be 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	-analyti	cal Chem	nistry				'					
mo1	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses	5		V (3)									
	Method	l of asse	essment		n examination (applage of assessment:	rox. 120 minutes) German and/or Engl	lish						
08-PH-KACP-152-	Practica	al cours	e of clinic	cal-ana	lytical Chemistry								
mo1	ECTS	5	Duration	n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate				
	Courses	5		P (5)		•		•					
	Method of assessment			Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical performance (2 to 4 random examinations)  Language of assessment: German and/or English									

08-ACM2-161-m01	Bioinorganic (	hemistry	1									
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		S (3)				,					
				le taught in: German								
	Method of ass	essment	exam		up to 3 candidates (1	15 to 30 minutes per ca		ch (20 to 30 minutes) or c) oral				
08-OCM-NAT-161-	Modern Aspects of Natural Product Chemistry and Biological Chemistry											
mo1	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		S (3) Modu	le taught in: German	or English							
	Method of ass	essment	exam	a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English								
	Participants a cation of place	es	Amon ned a	MA Chemie: unbegrenzt, Ma Biochemie: 20 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available.								
08-BC-VPMM-161-	Practical course "Molecular Machines" for advanced students											
mo1	ECTS 10	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	_	P (10)	, ,								
	Method of ass	essment	Log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English									
	Modules succ	essfully	o8-BC-MOLP									
	Additional Info	ormation	Addit	Additional information on module duration: block taught lab course with approx. 40 working days.								
08-BC-VPPD-161-	Practical cour	se "Protei	in Degr	adation in Eukaryote	es" for advanced stu	dents	'					
mo1	ECTS 10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		P (10)									
	Method of ass	essment	Log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English									
	Modules succ	essfully	o8-BC-MOLP									
	Additional Info	ormation	Additional information on module duration: block taught lab course with approx. 40 working days.									

o8-BC-VPRB-161-	Practic	al cours	e "RNA B	iocher	nistry" for advanced	d students						
mo1	ECTS	10	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		P (10)								
	Method	of ass	essment		Log (approx. 20 pages) and talk (approx. 15 minutes)							
						: German and/or Eng	lish					
	Module comple	es succe eted	essfully	o8-B0	o8-BC-MOLP							
							lock taught lab course with app	orox. 40 working	g days.			
o8-BC-VPSB-161-	Practic	al cours	e "Struct	ural B	ology" for advance	d students						
mo1	ECTS	10	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		P (10)								
	Method	d of ass	essment			nd talk (approx. 15 m : German and/or Eng						
	Modules successfully completed			o8-B0	C-MOLP							
	Additio	nal Info	rmation	Addit	ional information or	n module duration: b	lock taught lab course with app	orox. 40 working	days.			
Functional Materia	ls (25 or	30 ЕСТ	S credits)									
Compulsory Cours	es (20 EC	CTS cred	lits)									
o8-FU-Ma-	Material Science 1 (Basic introduction)											
Wi1-152-m01	ECTS 5 Duratio			1	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		V (3)	+ Ü (1)	•		•	•			
	Method of assessment			a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes)  Language of assessment: German and/or English								
08-0CM-FM-161-	Organi	c Functi	onal Mate	erials								
mo1	ECTS	5	Duration	ı	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S	•	S (3)			•	•				
	Method of assessment		essment	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) present (approx. 30 minutes) Language of assessment: German and/or English								
08-FMM-MP-161-	Lab Co	urse Ma	terial Sci	ence								
mo1	ECTS	5	Duration	ı	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Course	S	•	P (8)								
	Method of assessment			Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical performance (2 to 4 random examinations)  Language of assessment: German and/or English								
Master's with 1 major Ch	•						IMII Würzhurg • generated 20-0kt-2		record 8810221-11H12016			

08-FMM-PA-161-	Projec	t Work											
mo1	ECTS	5	Duratio	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Course	es	<u>.</u>	P (10)	(10)								
	Method of assessment				Log (approx. 15 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English								
Compulsory Electiv	es (5 oı	10 ECTS	credits)										
08-SCM1-152-m01	Supramolecular Chemistry (Basics)												
	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course			S (3)									
	Metho	d of ass	essment			oprox. 90 minutes) o German and/or Engl	r b) oral examination of one ca ish	ndidate each (a	pprox. 20 minutes)				
o8-FU-Mo-	Molec	ular Mat	erials (Le	cture)									
MaV-152-m01	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
		Courses			+ S (1)								
	Method of assessment			exam (appr	[a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes)] as well as talk (approx. 30 minutes), weighted 3:1 Language of assessment: German and/or English								
08-FU-NT-152-m01	Chemi	Chemically and bio-inspired Nanotechnology for Material Synthesis											
	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course	es		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) or examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentar (approx. 30 minutes)  Language of assessment: German and/or English									
o8-FU-Ma-	Materi	al Scien	ce 2 (The	Mater	ial Groups)								
Wi2-152-m01	ECTS	5	Duratio	1	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Course			V (3) -									
	Method of assessment			exam (appr	ination in groups of ox. 30 minutes)		approx. 15 minutes per candida		each (20 to 30 minutes) or c) oral oprox. 20 pages) or e) presentation				

03-FU-PM1-152-	Polymer Chemistry 1 (Lecture and Practical Course)											
mo1	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Course	S		V (2)	(2) + P(2)							
	Method	l of ass	essment	prox. Asses Langu	assessment and b) Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical assignments (2 to 4 random examinations) assessment offered: Once a year, winter semester anguage of assessment: German and/or English are ditable for bonus							
08-PCM3-161-m01	Nanosc	ale Ma	terials									
	ECTS	5	Duration	ก	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S			+ Ü (1) ıle taught in: Germ	an or English						
	Method of assessment			prox. Langu	written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (aprox. 30 minutes) anguage of assessment: German and/or English reditable for bonus							
08-TCM2-161-m01	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 assessment			exam (appr	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes)  Language of assessment: German and/or English							
08-ACM3-161-m01	Solid s	tate cho	emistry ar	nd inor	rganic materials			·				
	ECTS	5	Duration	ก	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S	•	S (3)			•	•				
	Method of assessment			exam (appr	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes)  Language of assessment: German and/or English							
03-FU-PM2-161-	Polyme	ers II						1				
mo1	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	S		S (2)	S (2) + Ü (1)							
	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								

Homogeneous Cata	alysis (25 or 3	o ECTS cred	lits)								
Compulsory Course	es (20 ECTS cr	edits)									
08-HKM1-152-m01	Organo- and	Biocatalys	is	;							
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses		S (3)								
	Method of as	ssessment	exami	a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English							
08-HKM2-161-m01				nistry and its applic	ation in homogeneo						
	ECTS 5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses			le taught in: Germaı							
	Method of as	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) presentat (approx. 30 minutes)  Language of assessment: German and/or English									
o8-HKM3AC-161-	Practical cou	ırse "Homo	geneou	ıs catalysis in Inorg	anic Chemistry"		,				
mo1	ECTS 5 Duratio		n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Courses		P (6) Modu	le taught in: Germaı	n or English						
	Method of as	ssessment		report on practical course (approx. 10 pages) and talk (approx. 15 minutes) Language of assessment: German and/or English							
o8-HKM3OC-161-	Practical cou	ırse "Homo	geneous catalysis in Organic Chemistry"								
mo1	ECTS 5	5 Duration		1 semester	Method of grading	(not) successfully completed	Modul level	graduate			
	Courses		P (6) Modu	P (6) Module taught in: German or English							
	Method of as	ssessment			(approx. 10 pages) a German and/or Engl	and talk (approx. 15 minutes) ish					
<b>Compulsory Electiv</b>	es (5 or 10 EC	TS credits)									
03-FU-PM1-152-	Polymer Che	mistry 1 (Le	ecture a	and Practical Course	2)						
mo1	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	undergraduate			
	Courses	•	V (2) +	- P (2)	•			·			
	Method of as	ssessment	a) assessment and b) Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical assignments (2 to 4 random examinations) Assessment offered: Once a year, winter semester Language of assessment: German and/or English creditable for bonus								

08-PCM2-161-m01	Statisti	ical Me	chanics a	nd Rea	ction Dynamics		1						
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	S			+ Ü (1) ıle taught in: Germa	an or English							
	Method of assessment			prox.	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes)  Language of assessment: German and/or English								
08-TCM2-161-m01	Basics	and Ap	plications	of Qu	of Quantum Chemistry								
	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate					
	Courses			S (2)	+ Ü (2)								
				exam (appr Lang	written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral amination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation oprox. 30 minutes) nguage of assessment: German and/or English								
		Synth	etic Meth										
mo1	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	d of ass	essment	exam (appr	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes) Language of assessment: German and/or English								
08-HKM4-161-m01	Advanc	ed tran	sition me	tal che	emistry								
	ECTS	5	Duration	n	1 semester	Method of grading numerical grade	Modul level	graduate					
	Course	S		S (3)									
	Method	d of ass	essment	exam (appr	ination in groups o ox. 30 minutes)	approx. 90 to 180 minutes) or b) oral examinat of up to 3 candidates (approx. 15 minutes per ca t: German and/or English							
Medicinal Chemist	ry (25 or	30 ECT	S credits)										
Compulsory Course			•										
08-MCM1-161-m01		al cours			emistry								
	ECTS	10	Duratio		1 semester	Method of grading (not) successfully comp	oleted   Modul level	graduate					
	Course				ıle taught in: Germa								
	Method	d of ass	essment	and a	ssessment of prac	(pre and post-experiment examination talks aptical assignments (2 to 4 random examinations t: German and/or English							

<b>Compulsory Electiv</b>	res (15 or 20 ECT	S credits	)									
08-MCM3-152-m01	Drug design											
	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses			S (2) + Ü (1) Module taught in: German or English								
	Method of asse	essment		presentation with discussion (approx. 30 minutes) Language of assessment: German and/or English								
	Participants an cation of place		the sa will be ted by ding t	o places. 4 places for students of the Master's degree programme Chemie (Chemistry): Places will be allocated according to the same number of subject semesters; students who have chosen Medizinische Chemie (Medicinal Chemistry) as their focus will be given preferential consideration; among applicants with the same number of subject semesters, places will be allocated by lot.; 6 places for students of the Master's degree programme Biochemie (Biochemistry): Places will be allocated according to the number of subject semesters; 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-analyti	ical Chen	nistry									
mo1	ECTS 5 Duratio		n	1 semester	Method of grading	numerical grade	Modul level	undergraduate				
	Courses		V (3)									
	Method of assessment			written examination (approx. 120 minutes) Language of assessment: German and/or English								
08-PH-KACP-152-	Practical course of clinical-analytical Chemistry											
mo1	ECTS 5 Duration		n	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate				
	Courses		P (5)									
	Method of assessment		Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical performance (2 to 4 random examinations)  Language of assessment: German and/or English									
08-ACM2-161-m01	Bioinorganic C	hemistry					'					
	ECTS 5	Duration	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		a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate)  Language of assessment: German and/or English									
08-OCM-SYNT-161-	Modern Synthe	etic Meth	ods				'					
mo1	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		S (2) + Modu	- Ü (1) le taught in: Germa	n or English		•					
	Method of assessment		a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes)  Language of assessment: German and/or English									

08-OCM-NAT-161-	Modern Aspects of Natural Product Chemistry and Biological Chemistry											
mo1	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		S (3) Modu	Module taught in: German or English								
	Method of	assessment	exam	a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate)  Language of assessment: German and/or English								
	Participant cation of pl		Amon	MA Chemie: unbegrenzt, Ma Biochemie: 20 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available.								
08-BC-	Molecular	Biology for A	dvance	ed Students								
MOLMC-161-mo1	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		V (2) -	+ Ü (1)								
			exam (appr Langu	written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral xamination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation approx. 30 minutes) anguage of assessment: German and/or English								
08-BC-VPSB-161-	Practical co	ourse "Struct	tural Bi	ral Biology" for advanced students								
mo1	ECTS 10	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses		P (10)									
	Method of	assessment			nd talk (approx. 15 mi German and/or Engl							
	Modules su completed		08-B0	-MOLP								
	Additional	Information	Additional information on module duration: block taught lab course with approx. 40 working days.									
08-MCM2a-161-	Pharmaceu	ıtical/Medici	al/Medicinal Chemistry 1									
mo1	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	<del></del>	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) presentati (approx. 30 minutes) Language of assessment: German and/or English									
o8-MCM2b-161-	Pharmaceu	ıtical/Medici	nal Che	emistry 2			,					
mo1	ECTS 5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate				
	Courses	'	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) examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presen (approx. 30 minutes)  Language of assessment: German and/or English									

08-MBC-MSP-161-	Mass-Spectrometry and Proteomics												
mo1	ECTS 5 Duration		n	1 semester Method of grading numerical grad		numerical grade	Modul level	graduate					
	Course	!S		Mòdı	V (2) + S (1) + P (2) Module taught in: German or English								
	Method	d of ass	sessment	a) written examination (approx. 45 to 90 minutes) or b) log (20 to 30 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) or e) presentation (20 to 40 minutes)  Assessment offered: Once a year, winter semester  Language of assessment: German and/or English									
	Participants and allo- cation of places			67 pl	67 places.								
Supramolecular Ch	emistry	(25 or	30 ECTS c	redits)									
Compulsory Course	es (10 EC	TS cre	dits)										
08-SCM1-152-m01	Supran	nolecu	lar Chemis	try (Ba	try (Basics)								
	ECTS 5 Duratio		n	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses			S (3)									
	Method	d of ass	sessment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) Language of assessment: German and/or English									
08-SCM2-161-m01	Supramolecular Chemistry (Practical Course)												
	ECTS 5 Duratio			n	1 semester	Method of grading	(not) successfully completed	Modul level	graduate				
	Course	!S		P (6) Module taught in: German or English									
	Method	d of ass	sessment	Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical performance (2 to 4 random examinations)  Language of assessment: German and/or English									
	Module comple		essfully	08-SCM1									
Compulsory Elective	es (15 o	r 20 EC	TS credits	)									
08-SCM3-152-m01													
	ECTS	5	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate				
	Course			S (3)									
	Method	d of ass	sessment	exam	a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate)  Language of assessment: German and/or English								

08-PCM3-161-m01	Nanoscale Materials											
	ECTS 5 Duration		ı	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	prox. Langi	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes)  Language of assessment: German and/or English creditable for bonus							
08-PCM5-161-m01	Physical Chemistry of Supramolecular Assemblies											
	ECTS	5	Duration	า	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Courses				+ Ü (1) ıle taught in: Germ	an or English						
	Metho	d of ass	essment	prox.	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) talk (approx. 30 minutes) Language of assessment: German and/or English							
08-ACM2-161-m01	Bioino	rganic C	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	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-TCM2-161-m01	Basics and Applications of Quantum Chemistry											
	ECTS 5 Duration			n 1 semester Method of grading numerical grade				Modul level	graduate			
	Course	es	•	S (2) + Ü (2)								
	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-OCM-FM-161-	Organi	ic Functi	onal Mate	rials								
mo1	ECTS 5 Duratio			1	1 semester	Method of grading	numerical grade	Modul level	graduate			
	Course	es		S (3)	S (3)							
	Metho	d of ass	essment	exam (appr	ination in groups o ox. 30 minutes)		approx. 15 minutes per c		each (20 to 30 minutes) or c) oral oprox. 20 pages) or e) presentation			

o8-SCM4-161-mo1	Supramolecular Chemistry (Advanced Lab)											
	ECTS	5	Duratio	1	1 semester	Modul level	l graduate					
	Course	S	,	P (6)	· (6)							
				Modu	le taught in: Germai	n or English						
	Method	d of ass	essment	presentation (approx. 20 minutes)								
					Language of assessment: German and/or English							
	Modules successfully completed				08-SCM2							
	Additional Information			Addit	ional information or	n module duration: block taught lab course with app	orox. 20 working	g days.				
Theoretical Chemis	stry (25 c	or 30 EC	TS credit	s)								
Compulsory Course	es (15 EC	TS cred	lits)									
08-TCM2-161-m01	Basics and Applications of Quantum Chemistry											
	ECTS	5	Duratio	า	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	S		S (2) -	S (2) + Ü (2)							
	Method	d of ass	essment	a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes)  Language of assessment: German and/or English								
08-TCM3-161-m01	Numerical Methods and Programming											
	ECTS 5 Duratio			1	1 semester	Method of grading   numerical grade	Modul level	graduate				
	Course	S		S (2) -	S (2) + Ü (2)							
	Method	d of ass	essment	exam (appr	ination in groups of ox. 30 minutes)	pprox. 90 to 180 minutes) or b) oral examination of up to 3 candidates (approx. 15 minutes per candidates (german and/or English						
08-TCM4-161-m01	Quantu	m Dyna	amics									
	ECTS 5 Duratio			1	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses			S (2) -	S (2) + Ü (2)							
	Method of assessment			exam (appr	ination in groups of ox. 30 minutes)	pprox. 90 to 180 minutes) or b) oral examination of up to 3 candidates (approx. 15 minutes per candidates). German and/or English						

Compulsory Electiv	es (10 o	r 15 ECT	S credits)								
08-MCM3-152-m01	Drug d	esign									
	ECTS	5	Duration	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			S (2) + Ü (1) Module taught in: German or English							
	Method of assessment			presentation with discussion (approx. 30 minutes) Language of assessment: German and/or English							
	Participants and allocation of places			20 places. 4 places for students of the Master's degree programme Chemie (Chemistry): Places will be allocated according to the same number of subject semesters; students who have chosen Medizinische Chemie (Medicinal Chemistry) as their focus will be given preferential consideration; among applicants with the same number of subject semesters, places will be allocated by lot.; 6 places for students of the Master's degree programme Biochemie (Biochemistry): Places will be allocated 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-TCM1-161-m01	Selecte	ed Topic	s in Theo	retical	Chemistry						
	ECTS 5 Duratio		Duratio	1	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	Courses			$S(2) + \ddot{U}(2)$						
	Method of assessment			a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or d) log (approx. 20 pages) or e) presentation (approx. 30 minutes)  Language of assessment: German and/or English							
08-TCAP1-161-m01	Theoretical Chemistry - Project course quantum chemistry										
	ECTS 5 Duratio		Duratio	1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Course	:S		P (5)							
	Method of assessment			presentation (approx. 30 minutes) Language of assessment: German and/or English							
	Additio	Additional Information			Additional information on module duration: block taught lab course with approx. 20 working days.						
08-TCAP2-161-m01	Theore	tical Ch	emistry -	Project course quantum dynamics							
	ECTS 5 Duratio			1	1 semester	Method of grading	(not) successfully completed	Modul level	graduate		
	Courses			P (5)							
				presentation (approx. 30 minutes) Language of assessment: German and/or English							
	Additional Information			Additi	onal information on	module duration: bl	ock taught lab course with app	rox. 20 working	g days.		

Thesis (30 ECTS credits)												
08-MA-161-m01	Master	Master-Thesis Chemistry										
ECTS 30 Duration 1 semester Method of grading numerical grade Modul leve								Modul level	graduate			
Courses No courses assigned to module												
	Method	Method of assessment   M			Master's thesis (approx. 60 to 80 pages) Language of assessment: German and/or English							
other prerequisites Where applicable, specific modules as specified by supervisor.												
Additional Information Time to complete: 6 months.												