



# **Annex SFB**

# Studienfachbeschreibung (subject description, SFB) for the subject Biochemistry 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: 2012
Abbreviations used:	Course types: <b>E</b> = field trip, <b>K</b> = colloquium, <b>O</b> = conversatorium, <b>P</b> = place = lecture	ement/lab course, <b>R</b> = project, <b>S</b> = seminar, <b>T</b> = tutorial, <b>Ü</b> = exercise, <b>V</b>
	Term: <b>SS</b> = summer semester, <b>WS</b> = winter semester	
	Methods of grading: <b>NUM</b> = numerical grade, <b>B/NB</b> = (not) successfully c	ompleted
	Regulations: <b>(L)ASPO</b> = general academic and examination regulations (fermitted) = list of modules	or teaching-degree programmes), <b>FSB</b> = subject-specific provisions, <b>SFB</b>
	Other: <b>A</b> = thesis, <b>LV</b> = course(s), <b>PL</b> = assessment(s), <b>TN</b> = participants, <b>V</b>	<b>/L</b> = prerequisite(s)
Conventions for the modules in this SFB:	Unless otherwise stated, courses and assessments will be held in German ditable for bonus.	n, assessments will be offered every semester and modules are not cre-
Information on assessment procedures:	Should there be the option to choose between several methods of assess thod of assessment to be used in the current semester by two weeks after customary manner.	
	Should a module comprise more than one graded assessment, all assess	ments will be equally weighted, unless otherwise stated below.
	Should the assessment comprise several individual assessments, succes individual assessments.	sful completion of the module will require successful completion of all

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

#### ASP02009

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

### 28-Aug-2012 (2012-151) except for mandatory elective o8-MCB-MSP-142 added in Fast Track procedure at a later time

### 17-Dec-2014 (2014-87)

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	D	uration	(in semesters)	Method of grading	Module level						
	Courses		To be spe	b 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	ssessmer	nt									
	Only after su completion of		if applica	if applicable								
	Other prereq	uisites	if applica	if applicable								
	Participants on of places		ati- if applica	ble								
	Additional in	formatio	n if applica	if applicable								
	Referred to in	n LPO I	if applica	ble (examination r	regulations for teaching	g-degree programmes)						

Compulsory Electives (90 ECTS credits)

## Compulsory Electives 1 (50 ECTS credits)

<b>Compulsory Electiv</b>	ves 1 (50	ECTS cr	edits)									
Focus 1 - Biochemis	stry and	Molecu	lar Biolog	<b>Sy</b> udopto	that did not take of	MTHP in the Pachelor's degree programme						
o8-MBC-		may only be taken by students that did not take 03-MTUB in the Bachelor's degree programme. <b>RNA worlds</b>										
RNAW-122-m01		5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses			S + S	(no information on	SWS (weekly contact hours) and course language av	ailable)					
	Methoc	l of asse	essment	3 writ (appr prox.	a) 1 to 3 written examinations (1 written examination: approx. 60 minutes; 2 written examinations: approx. 45 minutes each; 3 written examinations: approx. 40 minutes each) or b) log (approx. 20 pages) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (groups of 2: approx. 30 minutes, groups of 3: ap- prox. 40 minutes) or e) presentation/talk (approx. 15 to 30 minutes) Language of assessment: German or English							
08-MBC-LCP-122-	Life cyc	le of pro	oteins									
m01	ECTS	5	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Course	-		S + S	+ S (no information on SWS (weekly contact hours) and course language available)							
				3 writ (appr prox.	a) 1 to 3 written examinations (1 written examination: approx. 60 minutes; 2 written examinations: approx. 45 minutes each; 3 written examinations: approx. 40 minutes each) or b) log (approx. 20 pages) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (groups of 2: approx. 30 minutes, groups of 3: ap- prox. 40 minutes) or e) presentation/talk (approx. 15 to 30 minutes) Language of assessment: German or English							
08-MBC-GST-122- mo1	Genom		· ·									
11101		5	Duratio			Method of grading numerical grade	Modul level graduate					
	Course			S + S (no information on SWS (weekly contact hours) and course language available)								
	Method	1 OT ASSE	essment	3 writ (appro prox.	a) 1 to 3 written examinations (1 written examination: approx. 60 minutes; 2 written examinations: approx. 45 minutes each; 3 written examinations: approx. 40 minutes each) or b) log (approx. 20 pages) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (groups of 2: approx. 30 minutes, groups of 3: ap- prox. 40 minutes) or e) presentation/talk (approx. 15 to 30 minutes) Language of assessment: German or English							
08-MBC-RNP-122-	Structu	ire and f	unction o	of RNA-	protein complexes							
m01	ECTS	10	Duratio	n	1 semester	Method of grading numerical grade	Modul level	graduate				
	Courses	s		Ü + S	Ü + S (no information on SWS (weekly contact hours) and course language available)							
	Method of assessment			a) log (approx. 20 pages) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or d) presentation/talk (approx. 15 to 30 minutes) Assessment offered: once a year Language of assessment: German or English								

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08-MBC-PQK-122-	Protein	quality	otein quality control											
m01	ECTS	10	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Courses	S	_		+ S (no information on SWS (weekly contact hours) and course language available)									
	Method	l of asso	essment	(grou Asses	a) log (approx. 20 pages) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or d) presentation/talk (approx. 15 to 30 minutes) Assessment offered: once a year Language of assessment: German or English									
08-MBC-GEG-122-	Genom	e and e	pigenetic	-										
m01		10	Duration		1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	S	_	Ü + S	+ S (no information on SWS (weekly contact hours) and course language available)									
	Method	l of asso	essment	(grou Asses	a) log (approx. 20 pages) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or d) presentation/talk (approx. 15 to 30 minutes) Assessment offered: once a year Language of assessment: German or English									
08-MBC-MK-122-	<u> </u>		ar Crystal		hy	-	-							
m01	ECTS	10	Duration		1 semester	Method of grading	. <u> </u>	Modul level	graduate					
	Courses		_				tact hours) and course l							
	Method	Method of assessment			a) 1 to 3 written examinations (1 written examination: approx. 60 minutes; 2 written examinations: approx. 45 minutes each; 3 written examinations: approx. 40 minutes each) or b) log (approx. 20 pages) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (groups of 2: approx. 30 minutes, groups of 3: ap- prox. 40 minutes) or e) presentation/talk (approx. 15 to 30 minutes) Assessment offered: once a year Language of assessment: German or English									
08-MCM3-102-	Principles of drug design													
m01	ECTS	5	Duration		1 semester	Method of grading	¥	Modul level	graduate					
	Courses	-	_		-		hours) and course lang	guage available)						
	Method	l of ass	essment	presentation with discussion (approx. 30 minutes) Language of assessment: German or English										
	Particip cation o			Chem lot.	Chemistry Master's and Mathematics Master's: no restrictions. Biochemistry Master's: 10 places. Places will be allocated by lot.									
08-MBC-MSP-142-	Mass-S	pectror	metry and	l Prote	omics									
m01	ECTS	5	Duration		1 semester	Method of grading	-	Modul level	graduate					
	Courses	5					tact hours) and course l							
	Method	l of asso	essment	one c prox. Langi	a) written examination (approx. 60 minutes) or Biochemie (Biochemistry): b) log (approx. 20 pages) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups (groups of 2: approx. 30 minutes, groups of 3: ap- prox. 40 minutes) or e) presentation/talk (approx. 15 to 30 minutes) Language of assessment: German, English									
	Particip cation o			Bioch	emistry Master's: 6	places. Places will b	e allocated by lot.							

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08-BC-MOL-122-	Molecu	lar Biol	ogy for B	iochen	nistry students	1				
m01	ECTS	6	Duration	า	1 semester	Method of grading	numerical grade	Modul level	undergraduate	
	Course	S		<ul> <li>This module comprises 2 module components. Information on courses will be listed separately for each module component.</li> <li>o3-GTBS-1-092: V (no information on SWS (weekly contact hours) and course language available)</li> <li>o8-BC-MOL-1-122: V + Ü (no information on SWS (weekly contact hours) and course language available)</li> </ul>						
	Method of assessment			Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.						
				Assessment in module component o3-GTBS-1-092: Genetic Engineering and Biosafety <ul> <li>1 ECTS, Method of grading: (not) successfully completed</li> </ul>						
				<ul> <li>written examination (approx. 30 minutes)</li> <li>Assessment in module component o8-BC-MOL-1-122: Molecular Biology Molecular Biology</li> <li>5 ECTS, Method of grading: numerical grade</li> </ul>						
				<ul> <li>a) written examination (approx. 60 to 90 minutes) or b) log (approx. 20 pages) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or d) presentation (approx. 30 minutes). Students will be informed about the method and length of the assessment prior to the course.</li> <li>Language of assessment: German or English</li> </ul>						
	Modules successfully completed			o8-BC (module component o8-BC-1 only)						
08-MBC-LIT1-122-	Literature seminar 1									
m01	ECTS	5	Duration		1 semester	Method of grading	•	Modul level	graduate	
	Courses	s		S (no information on SWS (weekly contact hours) and course language available)						
	Methoo	d of ass	essment	presentation/talk (approx. 15 to 30 minutes) Language of assessment: German or English						
08-AMB-122-m01	Conterr	nporary	Biochem	ical Me	ethods					
	ECTS 5 Duration			า	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Course	S		S (no information on SWS (weekly contact hours) and course language available)						
	Methoo	d of ass	essment	1 to 3 written examinations (1 written examination: approx. 60 minutes; 2 written examinations: approx. 45 minutes each; 3 written examinations: approx. 40 minutes each) Language of assessment: German or English						

07-MS2B-	Bionhy	sics and		ar Bio	technology (Lectu	-MTUB in the Bachelo re and Seminar)	5 1 5				
T-102-m01	ECTS	10	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course						hours) and course language		0		
	Metho	d of ass	essment	wing	Students will be informed about the method, length and scope of the assessment prior to the course. Usually, one of the follo- wing options will be chosen: a) written examination (30 to 60 minutes, including multiple choice questions) or b) oral exami- nation of one candidate each (30 to 60 minutes) or c) oral examination in groups of up to 3 candidates (approx. 30 to 60 mi-						
		oants ar of place		Bioch	emistry Master's:	4 places. Places will b	e allocated by lot.				
03-MS2H-	Human	geneti	cs								
G-122-m01	ECTS	10	Duratio	n	2 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		V + S	(no information o	n SWS (weekly contact	hours) and course language	e available)			
	Clinical and Analytical			nation nutes							
08-PH-KAC-092- m01					r -				Lunder warde de la tra		
mor		5	Duratio		1 semester	Method of grading		Modul level	undergraduate		
	Course		occmont	V (no information on SWS (weekly contact hours) and course language available) written examination (120 minutes)							
08-PH-KACP-092-				Chemistry (practical course)							
m01	ECTS		Duratio		1 semester		(not) successfully complet	ed Modul level	undergraduate		
	Course	-	Duratio						undergladate		
		-	essment	P (no information on SWS (weekly contact hours) and course language available) examination talks (Testate, approx. 15 minutes each), log (approx. 5 to 10 pages)							
07-MS2M1-112-	_		(Lecture					1			
mo1	ECTS	10	Duratio		1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	:S		V + S	(no information o	n SWS (weekly contact	hours) and course language	e available)			
	Method of assessment			wing	Students will be informed about the method, length and scope of the assessment prior to the course. Usually, one of the follo- wing options will be chosen: a) written examination (30 to 60 minutes, including multiple choice questions) or b) oral exami- nation of one candidate each (30 to 60 minutes) or c) oral examination in groups of up to 3 candidates (approx. 30 to 60 mi-						
		oants ar of place		Biolo	gy Master's: no re	strictions. Biochemistr	y Master's: 15 places. Places	s will be allocated l	by lot.		

07-MS2M2-112-	Microb	iology :	2 (Lecture	and S	eminar)					_		
m01	ECTS	10	Duratio	า	1 semester	Method of gradir	ng numerical grade		Modul level	graduate		
	Course	s		V + S	+ S (no information on SWS (weekly contact hours) and course language available)							
	Methoo	d of ass	essment	wing	options will be o n of one candida	hosen: a) written exar	nination (30 to 60 mi	inutes, includi	ing multiple ch	ne course. Usually, one of the follo- noice questions) or b) oral exami- candidates (approx. 30 to 60 mi-		
	Particip cation	oants ar of place		Biolo	Biology Master's: no restrictions. Biochemistry Master's: 15 places. Places will be allocated by lot.							
03-MS2IM1-122-	Immun	ology 1										
m01	ECTS	10	Duratio	ı	1 semester	Method of gradir	ng numerical grade		Modul level	graduate		
	Course	S		V + S	(no information	on SWS (weekly conta	ct hours) and course	e language ava	ilable)			
	Method	d of ass	essment	lowin prox.	udents will be informed about the method, length and scope of the assessment prior to the course. Usually, one of the fol- wing options will be chosen: a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (ap- ox. 10 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to candidates (approx. 30 to 60 minutes) or e) presentation (20 to 45 minutes)							
	Particip cation	oants ar of place		Bioch	emistry Master'	s: 3 places. Places will	be allocated by lot.					
03-MS2IM2-122-	Immunology 2											
m01	ECTS	10	Duratio	า	1 semester	Method of gradir	ng numerical grade		Modul level	graduate		
	Course	S		V + S	<pre>/ + S (no information on SWS (weekly contact hours) and course language available)</pre>							
		Method of assessment			Students will be informed about the method, length and scope of the assessment prior to the course. Usually, one of lowing options will be chosen: a) written examination (30 to 60 minutes, including multiple choice questions) or b) lo prox. 10 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups 3 candidates (approx. 30 to 60 minutes) or e) presentation (20 to 45 minutes)					choice questions) or b) log (ap-		
	Particip cation			Bioch	emistry Master'	s: 3 places. Places will	be allocated by lot.					
03-MS2V1-122-	Virolog	y 1										
m01	ECTS	10	Duratio		1 semester	-	ng numerical grade		Modul level	graduate		
	Course	S		V + S	(no information	on SWS (weekly conta	ct hours) and course	e language ava	ilable)			
	Method	Method of assessment			Students will be informed about the method, length and scope of the assessment prior to the course. Usually, one of the follo- wing options will be chosen: a) written examination (30 to 60 minutes, including multiple choice questions) or b) oral exami- nation of one candidate each (30 to 60 minutes) or c) oral examination in groups of up to 3 candidates (approx. 30 to 60 mi- nutes)							
	Particip cation	oants ar of place		Bioch	emistry Master'	s: 3 places. Places will	be allocated by lot.					

03-MS2V2-122-	Virolog	y 2										
m01	ECTS 10 Duration			ı	1 semester	Method of gra	ading numerical grade		Modul level	graduate		
	Course	S	_	V + S	(no information (	on SWS (weekly co	ontact hours) and course	e language av	ailable)			
	Methoo	1 of ass	sessment	wing	options will be cl n of one candida	hosen: a) written e	xamination (30 to 60 m	inutes, includ	ding multiple ch	e course. Usually, one of the follo- ioice questions) or b) oral exami- candidates (approx. 30 to 60 mi-		
	cation	of plac			emistry Master's	: 3 places. Places	will be allocated by lot.					
03-MTUB-092-m01	Molecular Tumor Biology											
	ECTS	5	Duration	า	1 semester	Method of gra	ading numerical grade		Modul level	undergraduate		
	Course	s		Ü (no	information on S	SWS (weekly conta	ct hours) and course lar	nguage availa	able)			
	Method	1 of ass	sessment	(appr prox. sessr Asses	written examination (approx. 60 to 90 minutes) or b) log (approx. 20 pages) or c) oral examination of one candidate each approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (groups of 2: approx. 30 minutes, groups of 3: ap- rox. 40 minutes) or d) presentation (approx. 30 minutes). Students will be informed about the method and length of the as- essment prior to the course. ssessment offered: once a year, winter semester anguage of assessment: German, English							
	Particip cation		nd allo- es	Number of places: 12. Selection process Biochemie (Biochemistry) Bachelor's: 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 be 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. Selection process Biochemie (Biochemistry) Master's: allocation by lot.						a 1 (two thirds of places): current e grade, places will be allocated by among applicants with the same		
08-MBC-LIT2-122-	Literature seminar 2											
m01	ECTS	5	Duration	า	1 semester	Method of gra	ading numerical grade		Modul level	graduate		
	Course	S		S (no	information on S	WS (weekly conta	ct hours) and course lar	nguage availa	ible)			
	Methoo	d of ass	sessment	presentation/talk (approx. 15 to 30 minutes) Language of assessment: German or English								
03-98-PBG-092-	Bacteri	ial gen	etics - Infe	ctiolog	<i>s</i> y							
m01	ECTS	5	Duration	า	1 semester	Method of gra	ading numerical grade		Modul level	undergraduate		
	Course	S		V + S	+ Ü (no informati	ion on SWS (week	y contact hours) and co	urse languag	e available)			
	Method of assessment			methods of assessment: a) written examination (45 to 60 minutes) or b) log (10 to 20 pages) or c) oral examination of one can- didate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (approx. 15 minutes per candidate) or e) presentation (20 to 30 minutes)								
	other p			cours	е.					specified at the beginning of the		
	Particip cation		nd allo- es	Bioch	emistry Bachelo	r's: no restrictions	. Biochemistry Master's	: 4 places. Pla	aces will be allo	cated by lot.		

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03-98-MVKB-122-	Cardio	Cardiovascular Biology												
m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	S		V (no	(no information on SWS (weekly contact hours) and course language available)									
	Method	d of asso	essment	lowin prox.	tudents will be informed about the method, length and scope of the assessment prior to the course. Usually, one of the fol- owing options will be chosen: a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (ap- rox. 10 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to candidates (approx. 30 to 60 minutes) or e) presentation (20 to 45 minutes)									
	Molecu	Molecular Oncology												
MO-122-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	S	-	V (no	information on SWS	(weekly contact hou	irs) and course langua	age available)						
			essment	lowin prox.	g options will be cho 10 to 30 pages) or c)	osen: a) written exam ) oral examination of	nination (30 to 60 min	utes, including multiple 30 to 60 minutes) or d) o	e course. Usually, one of the fol- choice questions) or b) log (ap- oral examination in groups of up to					
03-98-MV-		Cell Biol												
SZ-122-m01	ECTS	5	Duration		1 semester	Method of grading		Modul level	graduate					
	Course	S		V (no	information on SWS	weekly contact hours	ırs) and course langua	age available)						
	Method	d of asso	essment	lowin prox.	Students will be informed about the method, length and scope of the assessment prior to the course. Usually, one of t lowing options will be chosen: a) written examination (30 to 60 minutes, including multiple choice questions) or b) log prox. 10 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups 3 candidates (approx. 30 to 60 minutes) or e) presentation (20 to 45 minutes)									
03-98-MV-	Clinical Neurobiology													
KN-122-m01	ECTS	5	Duratio	n	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	S		V (no information on SWS (weekly contact hours) and course language available)										
	Methoo	d of asso	essment	lowin prox.	g options will be cho 10 to 30 pages) or c)	osen: a) written exam ) oral examination of	nination (30 to 60 min	utes, including multiple 30 to 60 minutes) or d) o	e course. Usually, one of the fol- choice questions) or b) log (ap- oral examination in groups of up to					
03-98-MVTF-122-	Tissue	Engine	ering / Fu	nction	al Materials									
m01	ECTS	5	Duration	n	1 semester	Method of grading	numerical grade	Modul level	graduate					
	Course	S		V (no	information on SWS	(weekly contact hou	irs) and course langua	age available)						
	Method	d of ass	essment	lowin prox.	g options will be cho 10 to 30 pages) or c)	osen: a) written exam ) oral examination of	nination (30 to 60 min	utes, including multiple 30 to 60 minutes) or d) o	e course. Usually, one of the fol- choice questions) or b) log (ap- oral examination in groups of up to					

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	07-4BFN	AZ4-BC	and og-V							rogramme; module component		
,		only be taken by students that did not take module component o8-OC4-1 in the Bachelor's degree programme. Contemporary Research in Biochemistry M1										
m01	ECTS	3	Duration		2 semester	Method of grading	numerical grade		Modul level	graduate		
	Course	S	<u>,</u>	S + S	(no information on	SWS (weekly contact	hours) and course	language ava	ailable)			
	Methoo	d of ass	essment			ox. 15 to 30 minutes) t: German or English						
08-MBC-AFB2-122-	Conter	porary	Research	in Bio	chemistry M2							
m01	ECTS	3	Duration	า	2 semester	Method of grading	numerical grade		Modul level	graduate		
	Course	S		S + S	no information on	SWS (weekly contact	hours) and course	language ava	ailable)			
	Methoo	d of ass	essment			ox. 15 to 30 minutes) t: German or English						
08-SCM3-102-m01	Bioorga	anic Che	emistry									
	ECTS	5	Duratio	า	1 semester	Method of grading	numerical grade		Modul level	graduate		
	Course	s	,	S (no	information on SW	S (weekly contact ho	urs) and course lang	guage availab	ole)			
08-ACM2-102-m01	Bioinorganic Chemistry			Langu	ning of the course. Language of assessment: German or English							
	ECTS 5 Duration				1 semester	Method of grading	numerical grade		Modul level	graduate		
	Course	-	1 2 4. 4. 4. 6			S (weekly contact ho	•	guage availat		3.00000		
				a) 1 to natio the m ning o Langu	3 written examination of 3 written examination in groups (groups odule coordinator word the course. In the course of the course of the course of assessment	tions (60 or 90 minut of 2, 30 minutes). Sh will choose the metho t: German or English	res) or b) oral exami nould there be the o od to be used for the	ination of one	e candidate ea ose between s	ch (20 minutes) or c) oral exami- everal methods of assessment, e current semester at the begin-		
08-0CM-NAT-102-	Moderr	1 Aspec			oduct Chemistry and	d Biological Chemist			4			
m01	ECTS	5	Duration		1 semester	Method of grading			Modul level	graduate		
	Course					S (weekly contact ho						
	Method of assessment			natio the m ning c Langu	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral exami- nation in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the begin- ning of the course. Language of assessment: German or English							
	Participants and allo- cation of places			Chem	Chemistry Master's: no restrictions. Biochemistry Master's: 20 places. Places will be allocated by lot.							

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08-HKM1-102-m01	Organo	o- and B	iocatalys	is							
	ECTS	5	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Course	S		S (no	S (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment			nation the m ning c	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral exami- nation in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the begin- ning of the course. Language of assessment: German or English						
07-MS2BI-102-	Bioinfo	ormatics	G (Lecture	and Se	eminar)						
m01	ECTS	10	Duratio	า	1 semester	Method of grading	numerical grade	Modul level	graduate		
	Courses			S + V	no information on	SWS (weekly contact	hours) and course language	available)			
				Students will be informed about the method, length and scope of the assessment prior to the course. Usually, one of the follo- wing options will be chosen: a) written examination (30 to 60 minutes, including multiple choice questions) or b) oral exami- nation of one candidate each (30 to 60 minutes) or c) oral examination in groups of up to 3 candidates (approx. 30 to 60 mi- nutes)							
07-3A3BI-072-m01											
	ECTS 2 Duratio				1 semester	Method of grading	5	Modul level	undergraduate		
	Course	Courses			<ul> <li>This module comprises 2 module components. Information on courses will be listed separately for each module components.</li> <li>07-3A3BI-1B-072: V (no information on SWS (weekly contact hours) and course language available)</li> <li>07-3A3BI-2B-072: S (no information on SWS (weekly contact hours) and course language available)</li> </ul>						
	Method of assessment						essments in the individual m e module will require success		ts as specified below. Unless fall individual assessments.		
				• Asses	1 ECTS, Method of written examinations written examinations	f grading: numerical g on (approx. 20 minute <b>omponent 07-3A3BI-</b> f grading: (not) succes	es) 2 <b>B-072:</b> Bioinformatics (Semi				
		oants ar of place		Only as part of Biochemistry Master's: 5 places. Places will be allocated by lot.							

07-4BFMZ4-	Bioinfo	rmatics	for adva	nced S	tudents in Biochem	istry				
BC-092-m01	ECTS	5	Duration	า	1 semester	Method of grading numerical gra	de	Modul level	undergraduate	
	Course	s		V + Ü	V + Ü (no information on SWS (weekly contact hours) and course language available)					
	Method	d of ass	essment	log (approx. 10 to 20 pages) Assessment offered: once a year, summer semester Language of assessment: German or English						
	other p	rerequi	sites		Admission prerequisite to assessment: regular attendance of exercises and successful completion of the respective exercises as specified at the beginning of the course.					
		oants ar of place		applio thirds place applio	Biochemie (Biochemistry) Bachelor's: 4 places. Selection process Biochemie (Biochemistry) Bachelor's: 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.					
03-VTK-092-m01	Laboratory animal sciences									
	ECTS 2 Duration			า	1 semester	Method of grading (not) success	fully completed	Modul level	undergraduate	
	Courses			V + P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment			written examination (approx. 60 minutes)						
	other prerequisites			Admission prerequisite to assessment: regular attendance of lab course as specified at the beginning of the course.						
08-MBC-WR1-122-	Scienti	fic lectu	iring M1							
m01	ECTS	5	Duration	า	1 semester	Method of grading (not) success	fully completed	Modul level	graduate	
	Course	S		T (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment			cified	at the beginning of	g study groups: assessment to be s the course) : German or English	uccessfully com	pleted (type and	l length of assessment to be spe-	
o8-MBC-	Assista	ance in p	oractical o	Jourses 1						
AWA1-122-m01	ECTS	5	Duration	า	1 semester	Method of grading (not) success	fully completed	Modul level	graduate	
	Course	S		Ü (no	information on SW	S (weekly contact hours) and course	e language availa	able)		
	Method of assessment		essment							

07-MPWD-112-m01	1 Presentation of Scientific Data									
	ECTS 5	Duration	1	1 semester	Method of grading (n	not) successfully completed	Modul level	graduate		
	Courses	_	S (no	information on SWS	6 (weekly contact hours)	and course language availal	ole)			
	Method of asse	essment	Students will be informed about the length and scope of the assessment prior to the course. Usually, one of the following options will be chosen: a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (approx. 10 to 30							
			pages	pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates						
			(approx. 30 to 60 minutes) or e) presentation (20 to 45 minutes)							
	Participants an cation of place	S			rictions. Biochemistry M	laster's: 10 places. Places wil	l be allocated b	by lot.		
08-MBC-OC4-122-	<b>Basics in Orga</b>	nic Chem	istry 4							
m01	ECTS 5	Duration	<u>n</u>	1 semester	Method of grading nu	umerical grade	Modul level	undergraduate		
	Courses					urs) and course language av	-			
	Method of asse	essment						tions: approx. 60 or 90 minutes		
					ons: approx. 60 minute oups (groups of 2, appro		n of one candic	late each (approx. 20 minutes) or		
				lage of assessment:		x. 50 mmutes)				
<b>Compulsory Electiv</b>	es 3 (30 ECTS ci	redits)	1							
08-MBC-AP1-122-	Practical cours	e - abroa	d 1							
m01	ECTS 30	Duratio	n	1 semester	Method of grading (n	ot) successfully completed	Modul level	graduate		
	Courses		P (no information on SWS (weekly contact hours) and course language available)							
	Method of asse	essment	a) log (approx. 20 pages) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups							
				ps of 2: approx. 30 r lage of assessment:		pprox. 40 minutes) or d) prese	entation/talk (a	pprox. 15 to 30 minutes)		
	Additional Info	rmation	Addit	ional information or	n module duration: bloc	k lab course with a minimum	duration of 15	weeks.		
08-MBC-AP2-122-	Practical cours	e - abroa	d 2							
m01	ECTS 15	Duration		1 semester	• •	ot) successfully completed	Modul level	graduate		
	Courses					and course language availab	-			
	Method of asse	essment	a) log (approx. 20 pages) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or d) presentation/talk (approx. 15 to 30 minutes) Language of assessment: German or English							
	Additional Info	rmation	Addit	ional information or	n module duration: bloc	k lab course with a minimum	duration of 8 v	veeks.		
08-MBC-EP1-122-	Practical cours	e - exterr	nal 1							
m01	ECTS 15	Duration	n	1 semester	Method of grading (n	not) successfully completed	Modul level	graduate		
	Courses					and course language availab				
	Method of asse	essment	a) log (approx. 20 pages) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or d) presentation/talk (approx. 15 to 30 minutes) Language of assessment: German or English							
	Additional Info	rmation	Addit	ional information or	n module duration: bloc	k lab course with a minimum	duration of 8 v	veeks.		

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08-MBC-EP2-122-	Practic	al cours	e - extern	nal 2						
m01	ECTS	15	Duratio	n	1 semester	Method of grading (not) successfully completed Modul level	graduate			
	Course	S		P (no	information on SWS	(weekly contact hours) and course language available)				
				(group	) log (approx. 20 pages) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or d) presentation/talk (approx. 15 to 30 minutes) anguage of assessment: German or English					
	Additio	onal Info	rmation	Additi	ional information on	module duration: block lab course with a minimum duration of 8 v	veeks.			
08-MBC-LP1-122-	Practic	al lab co	ourse 1							
m01	ECTS	15	Duratio	n	1 semester	Method of grading (not) successfully completed Modul level	graduate			
	Course	S		P (no	information on SWS	(weekly contact hours) and course language available)				
	Methoo	d of asso	essment	(group		or b) oral examination of one candidate each (approx. 20 minutes) ninutes, groups of 3: approx. 40 minutes) or d) presentation/talk (a German or English				
	Additio	onal Info	rmation	Additi	ional information on	module duration: block lab course with a minimum duration of 8 v	veeks.			
08-MBC-LP2-122-	Practic	al lab co	ourse 2							
m01	ECTS	15	Duratio	n	1 semester	Method of grading (not) successfully completed Modul level	graduate			
	Courses			P (no	information on SWS	(weekly contact hours) and course language available)				
	Method of assessment			(group	a) log (approx. 20 pages) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or d) presentation/talk (approx. 15 to 30 minutes) Language of assessment: German or English					
	Additio	onal Info	rmation	Additi	onal information on	module duration: block lab course with a minimum duration of 8 v	veeks.			
08-MBC-LP3-122-	Practic	al lab co	ourse 3							
m01	ECTS	10	Duratio	n	1 semester	Method of grading (not) successfully completed Modul level	graduate			
	Courses			P (no information on SWS (weekly contact hours) and course language available)						
	Methoo	d of asso	essment	(group	a) log (approx. 20 pages) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or d) presentation/talk (approx. 15 to 30 minutes) Language of assessment: German or English					
	Additio	onal Info	rmation	Additi	Additional information on module duration: block lab course with a minimum duration of 6 weeks.					
08-MBC-LP4-122-	Practic	al lab co	ourse 4							
m01	ECTS	10	Duratio	n	1 semester	Method of grading (not) successfully completed Modul level	graduate			
	Course	S		P (no	information on SWS	(weekly contact hours) and course language available)				
				(group	a) log (approx. 20 pages) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or d) presentation/talk (approx. 15 to 30 minutes) Language of assessment: German or English					
				1 - 41.90	Additional information on module duration: block lab course with a minimum duration of 6 weeks.					

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08-MBC-LP5-122-	Practic	al lab c	ourse 5								
m01	ECTS	5	Duration	า	1 semester	Method of grading (not) suc	cessfully completed	Modul level	graduate		
	Course	S		P (no	(no information on SWS (weekly contact hours) and course language available)						
	Methoo	d of ass	essment	(grou	a) log (approx. 20 pages) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or d) presentation/talk (approx. 15 to 30 minutes) anguage of assessment: German or English						
	Additio	onal Info	ormation	Addit	onal information on	module duration: block lab co	ourse with a minimum	duration of 3 w	veeks.		
08-MBC-LP6-122-	Practic	al lab c	ourse 6								
m01	ECTS	5	Duration	า	1 semester	Method of grading (not) suce	cessfully completed	Modul level	graduate		
	Course	S		P (no	information on SWS	(weekly contact hours) and co	urse language availat	ole)			
	Methoo	d of ass	essment	a) log (approx. 20 pages) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or d) presentation/talk (approx. 15 to 30 minutes) Language of assessment: German or English							
	Additio	nal Info	ormation	Additional information on module duration: block lab course with a minimum duration of 3 weeks.					veeks.		
08-MBC-WR2-122-	Scienti	fic lectu	iring M2								
m01	ECTS 5 Duratio			า	1 semester	Method of grading (not) suce	cessfully completed	Modul level	graduate		
	Courses			T (no information on SWS (weekly contact hours) and course language available)							
	Methoo	d of ass	essment	cified	ring and supervising at the beginning of t age of assessment:	he course)	be successfully comp	leted (type and	l length of assessment to be spe-		
o8-MBC-	Assista	ance in p	practical o	course	5 2						
AWA2-122-m01	ECTS	5	Duration	ı	1 semester	Method of grading (not) suce	cessfully completed	Modul level	graduate		
	Course	S	•	Ü (no	information on SWS	(weekly contact hours) and co	ourse language availal	ole)			
	Method of assessment			be sp	preparing and supervising student lab courses: assessment to be successfully completed (type and length of assessment to be specified at the beginning of the course) anguage of assessment: German or English						

Thesis (30 ECTS cr	hesis (30 ECTS credits)										
08-MBC-MA-122-	Final Examination in Biochemistry										
m01	ECTS 30 Duratio			۱	1 semester	Method of grading	numerical grade	Modul level	graduate		
	• 08-MBC-MA-2-122: K (no ir					K (no information or	ents; information on courses listed separately for each component. ( (no information on language and number of weekly contact hours available) ( (no information on language and number of weekly contact hours available)				
	Method	d of asso		This module has the following 2 assessment components. Unless stated otherwise, students must pass all of these as- sessment components to pass the module as a whole							
							t o8-MBC-MA-2-122: Absch	nlusskolloquium			
				•		hod of grading: num um (approx. 45 minu					
				•	Language of assess	sment: German or En	glish				
					Assessment component to module component o8-MBC-MA-1-122: Master-Arbeit						
				•	25 ECIS credits, me written thesis (app	ethod of grading: nur	nerical grade				
				•		sment: German or En	glish				