

## Subdivided Module Catalogue for the Subject

# Biochemistry

as a Master's with 1 major with the degree "Master of Science" (120 ECTS credits)

Examination regulations version: 2012 Responsible: Faculty of Chemistry and Pharmacy

JMU Würzburg • generated 26-Aug-2024 • exam. reg. data record 88|025|-|-|H|2012



## **Course of Studies - Contents and Objectives**

No translation available.

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### Abbreviations used

Course types:  $\mathbf{E}$  = field trip,  $\mathbf{K}$  = colloquium,  $\mathbf{O}$  = conversatorium,  $\mathbf{P}$  = placement/lab course,  $\mathbf{R}$  = project,  $\mathbf{S}$  = seminar,  $\mathbf{T}$  = tutorial,  $\ddot{\mathbf{U}}$  = exercise,  $\mathbf{V}$  = 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

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

#### Notes

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 the 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:

#### 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.

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## The subject is divided into

Abbreviation	Module title	ECTS credits	Method of grading	pag
Compulsory Electives (90 l	ECTS credits)			
Compulsory Electives 1 (5	o ECTS credits)			
Focus 1 - Biochemistry a				
	only be taken by students that did not take 03-MTUB in the Ba	chelor's de	gree programm	ie.
08-MBC-RNAW-122- m01	RNA worlds	5	NUM	55
08-MBC-LCP-122-m01	Life cycle of proteins	5	NUM	41
08-MBC-GST-122-m01	Genome stability	5	NUM	40
08-MBC-RNP-122-m01	Structure and function of RNA-protein complexes	10	NUM	56
08-MBC-PQK-122-m01	Protein quality control	10	NUM	54
08-MBC-GEG-122-m01	Genome and epigenetics	10	NUM	39
08-MBC-MK-122-m01	Macromolecular Crystallography	10	NUM	5:
08-MCM3-102-m01	Principles of drug design	5	NUM	59
08-MBC-MSP-142-m01	Mass-Spectrometry and Proteomics	5	NUM	52
08-BC-MOL-122-m01	Molecular Biology for Biochemistry students	6	NUM	2
08-MBC-LIT1-122-m01	Literature seminar 1	5	NUM	4
08-AMB-122-m01	Contemporary Biochemical Methods	5	NUM	2
	, lopmental Biology/Molecular Medicine nly be taken by students that did not take 03-MTUB in the Bach	elor's degre	ee programme.	
07-MS2BT-102-m01	Biophysics and Molecular Biotechnology (Lecture and Semi- nar)	10	NUM	2
03-MS2HG-122-m01	Human genetics	10	NUM	12
08-PH-KAC-092-m01	Clinical and Analytical Chemistry	5	NUM	6
08-PH-KACP-092-m01	Clinical and Analytical Chemistry (practical course)	5	B/NB	6
07-MS2M1-112-m01	Microbiology 1 (Lecture and Seminar)	10	NUM	2.
07-MS2M2-112-m01	Microbiology 2 (Lecture and Seminar)	10	NUM	2
03-MS2IM1-122-m01	Immunology 1	10	NUM	1
03-MS2IM2-122-m01	Immunology 2	10	NUM	1.
03-MS2V1-122-m01	Virology 1	10	NUM	1
03-MS2V2-122-m01	Virology 2	10	NUM	10
03-MTUB-092-m01	Molecular Tumor Biology	5	NUM	1
08-MBC-LIT2-122-m01	Literature seminar 2	5	NUM	4
03-98-PBG-092-m01	Bacterial genetics - Infectiology	5	NUM	1
03-98-MVKB-122-m01	Cardiovascular Biology	5	NUM	6
03-98-MVMO-122-m01	Molecular Oncology	5	NUM	8
03-98-MVSZ-122-m01	Stem Cell Biology	5	NUM	9
03-98-MVKN-122-m01	Clinical Neurobiology	5	NUM	7
03-98-MVTF-122-m01	Tissue Engineering / Functional Materials	5	NUM	10
chelor's degree programm	to <b>ECTS credits)</b> FMZ4-BC and 03-VTK may only be taken by students that did no ne; module component 08-MBC-OC4-1 may only be taken by stu he Bachelor's degree programme.	ot take thes udents that	e modules in th did not take m	ne Ba odul
	Contemporary Research in Biochemistry M1	2	NUM	3
08-MBC-AFB1-122-m01	Contemporary Research in Diochemistry M1	3	Nom	ר ן

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08-SCM3-102-m01	Bioorganic Chemistry	5	NUM	63
08-ACM2-102-m01	Bioinorganic Chemistry	5	NUM	26
08-OCM-NAT-102-m01	Modern Aspects of Natural Product Chemistry and Biological Chemistry	5	NUM	60
08-HKM1-102-m01	Organo- and Biocatalysis	5	NUM	30
07-MS2BI-102-m01	Bioinformatics (Lecture and Seminar)	10	NUM	22
07-3A3BI-072-m01	Bioinformatics	2	NUM	19
07-4BFMZ4-BC-092-m01	Bioinformatics for advanced Students in Biochemistry	5	NUM	20
03-VTK-092-m01	Laboratory animal sciences	2	B/NB	18
08-MBC-WR1-122-m01	Scientific lecturing M1	5	B/NB	57
08-MBC-AWA1-122-m01	Assistance in practical courses 1	5	B/NB	35
07-MPWD-112-m01	Presentation of Scientific Data	5	B/NB	21
08-MBC-OC4-122-m01	Basics in Organic Chemistry 4	5	NUM	53
Compulsory Electives 3 (3	go ECTS credits)			
08-MBC-AP1-122-m01	Practical course - abroad 1	30	B/NB	33
08-MBC-AP2-122-m01	Practical course - abroad 2	15	B/NB	34
08-MBC-EP1-122-m01	Practical course - external 1	15	B/NB	37
08-MBC-EP2-122-m01	Practical course - external 2	15	B/NB	38
08-MBC-LP1-122-m01	Practical lab course 1	15	B/NB	44
08-MBC-LP2-122-m01	Practical lab course 2	15	B/NB	45
08-MBC-LP3-122-m01	Practical lab course 3	10	B/NB	46
08-MBC-LP4-122-m01	Practical lab course 4	10	B/NB	47
08-MBC-LP5-122-m01	Practical lab course 5	5	B/NB	48
08-MBC-LP6-122-m01	Practical lab course 6	5	B/NB	49
08-MBC-WR2-122-m01	Scientific lecturing M2	5	B/NB	58
08-MBC-AWA2-122-m01	Assistance in practical courses 2	5	B/NB	36
Thesis (30 ECTS credits)				<i>.</i>
08-MBC-MA-122-m01	Final Examination in Biochemistry	30	NUM	50

Module title					Abbreviation	
Cardiovascular Biology					03-98-MVKB-122-m01	
Module coordinator				Module offered by		
holder	of the C	Chair of Experimental Bio	medicine	Faculty of Medicine		
ECTS		od of grading	Only after succ. com	pl. of module(s)		
5	· · · · · ·	rical grade				
Duratio		Module level	Other prerequisites			
1 seme	I	graduate				
Conten						
Fundan field.	nental a	and specific knowledge o	of cardiovascular biol	ogy is taught based	on selected questions from this	
Intende	ed learr	ning outcomes				
logy an	d, in pa		al biology, erythropoi		problems in cardiovascular bio- tion, myocardial diseases, diabe-	
Course	<b>s</b> (type,	, number of weekly conta	ct hours, language —	if other than Germa	n)	
V (no ir	nformat	ion on SWS (weekly cont	act hours) and cours	e language available	2)	
		e <b>ssment</b> (type, scope, la on on whether module ca			tion offered — if not every seme-	
one of t questio	the follons) or	owing options will be cho b) log (approx. 10 to 30 p	osen: a) written exam ages) or c) oral exam	ination (30 to 60 min ination of one candi	nt prior to the course. Usually, nutes, including multiple choice date each (30 to 60 minutes) or or e) presentation (20 to 45 minu-	
Allocat	ion of p	olaces				
Additio	nal info	ormation				
Worklo	ad					
Teaching cycle						
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)						
Module	e appea	irs in				
		ee (1 major) Biochemistry	r (2012)			
Master	's degre	ee (1 major) Biomedicine	(2013)			
Master	's degre	ee (1 major) Biomedicine	(2012)			

					Abbreviation	
Clinica	Clinical Neurobiology 03-98-MVKN-122-m01					
Modul	e coord	inator		Module offered by		
holder of the Chair of Clinical Neurobio		logy	Faculty of Medicine			
ECTS		od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio		Module level	Other prerequisites			
1 seme		graduate				
Conter	nts					
discus apses, matose and mi campu disorde epileps on lect <b>Intend</b> Studer in neur	sed: int transm ensory s uscle di s, learn ers of co sy, visio ure-rele <b>ed learr</b> nts who robiolog	roduction to neurons and itter release, NMJ, myast system, touch, pain, schiz seases, anatomy and fun ing and memory, anterog onscious and unconsciou on and diseases of the vis evant topics to document <b>hing outcomes</b> successfully completed t sy. They will have examin	d glia, ion channels a henia gravis, cerebel zophrenia and autisn action of the motor sy grade amnesia, visua is mental processes, sual system. The liter the experiments und shis module will have ed clinical aspects of	nd membrane poten lum, basal ganglia, a n spectrum disorders stem, spinal reflexes l agnosia, cortex and attention, smell and ature seminars are b lerlying our present l c acquired insights in f neurobiology with a	blogy. The following topics will be tial, ion channelopathies, syn- ataxia and Morbus Parkinson, so- s, disorders of cognition, muscle s, motoneuron diseases, hippo- I the limbic system, emotions, taste and hearing, sleep, EEG, ased on fundamental literature knowledge in neurobiology.	
form. T	he stud		critically read scient	ific publications in tl	ne field of neurobiology and will	
Course	<b>s</b> (type,	number of weekly conta	ct hours, language —	· if other than Germa	n)	
V (no i	nformat	ion on SWS (weekly cont	act hours) and cours	e language available	)	
		<b>essment</b> (type, scope, la on on whether module ca			tion offered — if not every seme-	
one of questi	the folloons) or	owing options will be cho b) log (approx. 10 to 30 p	osen: a) written exam ages) or c) oral exam	ination (30 to 60 min ination of one candi	nt prior to the course. Usually, nutes, including multiple choice date each (30 to 60 minutes) or or e) presentation (20 to 45 minu-	
Allocat	tion of p	olaces				
Additio	onal info	ormation				
Worklo	ad					
Teachi	Teaching cycle					
Referre	ad to in	LPO I (examination regu	lations for teaching	legree programmec)		
Modul	e appea	rs in				
		ee (1 major) Biochemistry	(2012)			
	-	ee (1 major) Biomedicine	-			
Master	's degre	ee (1 major) Biomedicine	(2012)			

Module	e title				Abbreviation	
Molecular Oncology					03-98-MVMO-122-m01	
Module coordinator				Module offered by		
holder	of the (	Chair of Biochemistry and	Molecular Biology			
ECTS		od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
cancer; signalli cells; n	; visual ing and nolecul	ising in vivo tumour prog colorectal cancer; cell cy ar mechanisms of meland	ression and response vcle and tumour supp oma development; tu	e to therapy; targetir ressor genes; prote mour immunology;	metabolic reprogramming in ng Myc for tumour therapy; Wnt in turnover in normal and cancer stem cells and epigenetics; si- cions and tumour development.	
Intende	ed lear	ning outcomes				
Studen such cł			and challenges in tu	Imour research and	the methods used to address	
Course	<b>s</b> (type	, number of weekly conta	ct hours, language —	if other than Germa	ın)	
V (no ir	format	tion on SWS (weekly cont	act hours) and cours	e language available	e)	
Metho	d of ass		nguage — if other tha	an German, examina	tion offered — if not every seme-	
one of questic	the foll ons) or	owing options will be cho b) log (approx. 10 to 30 p	osen: a) written exam ages) or c) oral exam	ination (30 to 60 mi ination of one candi	nt prior to the course. Usually, nutes, including multiple choice date each (30 to 60 minutes) or or e) presentation (20 to 45 minu-	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
Teachi	ng cvcl	e				
	<u> </u>					
Referre	<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)					
		(				
Module	e appea	urs in				
Master	's degr	ee (1 major) Biochemistry ee (1 major) Biomedicine ee (1 major) Biomedicine	(2013)			

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	e title				Abbreviation
Stem C	Cell Bio	logy			03-98-MVSZ-122-m01
Module coordinator				Module offered by	
Institut	te of Me	edical Radiology and Cell	Research (MSZ)	Faculty of Medicine	2
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)	
5	nume	rical grade			
Duratio	on	Module level	Other prerequisites	5	
1 seme	ester	graduate			
Conter	nts				
		e, current problems in the are discussed and speci			ular differentiation and regenera
	-	ning outcomes			
Studer	nts have				t problems in stem cell biology, terature.
Course	es (type	, number of weekly conta	act hours, language –	- if other than Germa	an)
V (no i	nforma	tion on SWS (weekly con	tact hours) and cours	e language availabl	e)
			anguage — if other th	an German, examina	ation offered — if not every seme
Studer	nts will		ethod, length and sc	a bonus) ope of the assessme	ent prior to the course. Usually,
Studer one of questio	nts will the foll ons) or	be informed about the m owing options will be ch b) log (approx. 10 to 30 p	ethod, length and sc osen: a) written exam oages) or c) oral exam	a bonus) ope of the assessme nination (30 to 60 mi nination of one cand	ent prior to the course. Usually, nutes, including multiple choice idate each (30 to 60 minutes) or
Studer one of questio d) oral tes)	nts will the foll ons) or	be informed about the m owing options will be ch b) log (approx. 10 to 30 p nation in groups of up to	ethod, length and sc osen: a) written exam oages) or c) oral exam	a bonus) ope of the assessme nination (30 to 60 mi nination of one cand	ent prior to the course. Usually, nutes, including multiple choice idate each (30 to 60 minutes) or
Studer one of questio d) oral tes)	nts will the foll ons) or examir	be informed about the m owing options will be ch b) log (approx. 10 to 30 p nation in groups of up to	ethod, length and sc osen: a) written exam oages) or c) oral exam	a bonus) ope of the assessme nination (30 to 60 mi nination of one cand	ent prior to the course. Usually, nutes, including multiple choice idate each (30 to 60 minutes) or
Studer one of questic d) oral tes) Allocat	nts will the foll ons) or examir t <b>ion of</b> J	be informed about the m owing options will be ch b) log (approx. 10 to 30 p nation in groups of up to places	ethod, length and sc osen: a) written exam oages) or c) oral exam	a bonus) ope of the assessme nination (30 to 60 mi nination of one cand	ent prior to the course. Usually, nutes, including multiple choice idate each (30 to 60 minutes) or
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Studer one of questic d) oral tes) Allocat  Additic	nts will the foll ons) or examir <b>tion of </b> <b>Dnal inf</b>	be informed about the m owing options will be ch b) log (approx. 10 to 30 p nation in groups of up to places	ethod, length and sc osen: a) written exam oages) or c) oral exam	a bonus) ope of the assessme nination (30 to 60 mi nination of one cand	ent prior to the course. Usually, nutes, including multiple choice idate each (30 to 60 minutes) or
Studer one of questic d) oral tes) Allocat  Additic	nts will the foll ons) or examir <b>tion of </b> <b>Dnal inf</b>	be informed about the m owing options will be ch b) log (approx. 10 to 30 p nation in groups of up to places	ethod, length and sc osen: a) written exam oages) or c) oral exam	a bonus) ope of the assessme nination (30 to 60 mi nination of one cand	ent prior to the course. Usually, nutes, including multiple choice idate each (30 to 60 minutes) or
Studer one of questic d) oral tes) Allocat  Additic  Worklc	nts will the foll ons) or examir <b>tion of </b> <b>Dnal inf</b>	be informed about the m owing options will be ch b) log (approx. 10 to 30 p nation in groups of up to places	ethod, length and sc osen: a) written exam oages) or c) oral exam	a bonus) ope of the assessme nination (30 to 60 mi nination of one cand	ent prior to the course. Usually, nutes, including multiple choice idate each (30 to 60 minutes) or
Studer one of questic d) oral tes) Allocat  Additic  Worklc	nts will the foll ons) or examir tion of p onal inf	be informed about the m owing options will be ch b) log (approx. 10 to 30 p nation in groups of up to places	ethod, length and sc osen: a) written exam oages) or c) oral exam	a bonus) ope of the assessme nination (30 to 60 mi nination of one cand	ent prior to the course. Usually, nutes, including multiple choice idate each (30 to 60 minutes) or
Studer one of questic d) oral tes) Allocat  Additic  Worklc  Teachi 	nts will the foll ons) or examir tion of p onal inf pad	be informed about the m owing options will be ch b) log (approx. 10 to 30 p nation in groups of up to places	ethod, length and sc osen: a) written exam pages) or c) oral exam 3 candidates (approx	a bonus) ope of the assessme nination (30 to 60 mi nination of one cand 30 to 60 minutes)	ent prior to the course. Usually, nutes, including multiple choice idate each (30 to 60 minutes) or or e) presentation (20 to 45 min
Studer one of questic d) oral tes) Allocat  Additic  Worklc  Teachi 	nts will the foll ons) or examir tion of p onal inf pad	be informed about the m owing options will be ch b) log (approx. 10 to 30 p nation in groups of up to places formation	ethod, length and sc osen: a) written exam pages) or c) oral exam 3 candidates (approx	a bonus) ope of the assessme nination (30 to 60 mi nination of one cand 30 to 60 minutes)	ent prior to the course. Usually, nutes, including multiple choice idate each (30 to 60 minutes) or or e) presentation (20 to 45 min
Studer one of questic d) oral tes) Allocat  Additic  Teachi  Referre	nts will the foll ons) or examir tion of p onal inf pad	be informed about the m owing options will be ch b) log (approx. 10 to 30 p nation in groups of up to places formation e LPOI (examination regu	ethod, length and sc osen: a) written exam pages) or c) oral exam 3 candidates (approx	a bonus) ope of the assessme nination (30 to 60 mi nination of one cand 30 to 60 minutes)	ent prior to the course. Usually, nutes, including multiple choice idate each (30 to 60 minutes) of or e) presentation (20 to 45 min
Studer one of questic d) oral tes) Allocat  Additic  Worklo  Teachi  Referre  Modulo	nts will the foll ons) or examir tion of p onal inf oad ng cycl ed to in e appea	be informed about the m owing options will be ch b) log (approx. 10 to 30 p nation in groups of up to places formation e LPOI (examination regu	ethod, length and sc osen: a) written exam bages) or c) oral exam 3 candidates (approx	a bonus) ope of the assessme nination (30 to 60 mi nination of one cand 30 to 60 minutes)	ent prior to the course. Usually, nutes, including multiple choice idate each (30 to 60 minutes) of or e) presentation (20 to 45 min
Studer one of questic d) oral tes) Allocat  Additic  Worklc  Teachi  Referre  Module	nts will the foll ons) or examir tion of p onal inf onal inf oad ng cycl ed to in e appea	be informed about the m owing options will be cho b) log (approx. 10 to 30 p nation in groups of up to places formation e LPOI (examination regu	ethod, length and sc osen: a) written exam bages) or c) oral exam 3 candidates (approx	a bonus) ope of the assessme nination (30 to 60 mi nination of one cand 30 to 60 minutes)	ent prior to the course. Usually, nutes, including multiple choice idate each (30 to 60 minutes) of or e) presentation (20 to 45 min

	e title				Abbreviation
Tissue Engineering / Functional Materials					03-98-MVTF-122-m01
Module coordinator				Module offered by	<u> </u>
			ng (University Hospi-	Faculty of Medicine	2
ECTS					
5					
Duratio	on	Module level	Other prerequisites		
1 seme	ester	graduate			
Conten	nts				
cell-ba (registr (good r	ised tra ration, o manufa	nsplants, regulatory func evaluation, restriction an cturing practice), GCP (g	lamentals for approva d approval of drugs),	al of medical produc medicine products	l other diseases, development of ts and drugs. These are REACH law, GLP (good lab practice), GMI
		ning outcomes			
					on, adhesion to surfaces, mecha ng and quality management.
Course	<b>es</b> (type	, number of weekly conta	act hours, language –	- if other than Germa	an)
V (no ir	nformat	ion on SWS (weekly cont	tact hours) and cours	e language available	e)
		s <b>essment</b> (type, scope, la on on whether module c			tion offered — if not every seme-
one of	the foll	owing options will be ch	osen: a) written exam		ent prior to the course. Usually,
				ination of one cand	idate each (30 to 60 minutes) or
d) oral tes)		ation in groups of up to		ination of one cand	idate each (30 to 60 minutes) or
d) oral tes)	examir	ation in groups of up to		ination of one cand	idate each (30 to 60 minutes) or
d) oral tes) Allocat	examir tion of J	ation in groups of up to		ination of one cand	idate each (30 to 60 minutes) or
d) oral tes) Allocat	examir tion of J	ation in groups of up to places		ination of one cand	
d) oral tes) Allocat	examir tion of j onal inf	ation in groups of up to places		ination of one cand	idate each (30 to 60 minutes) or
d) oral tes) Allocat  Additic	examir tion of j onal inf	ation in groups of up to places		ination of one cand	idate each (30 to 60 minutes) or
d) oral tes) Allocat  Additic  Worklo 	examir tion of j onal inf	olaces		ination of one cand	idate each (30 to 60 minutes) or
d) oral tes) Allocat  Additic  Worklo 	examir tion of f onal inf	olaces		ination of one cand	idate each (30 to 60 minutes) or
d) oral tes) Allocat  Additic  Worklo  Teachi 	examir tion of p onal inf oad	olaces	3 candidates (approx	ination of one cand	idate each (30 to 60 minutes) or or e) presentation (20 to 45 minu
d) oral tes) Allocat  Additio  Worklo  Teachin  Referre	examir tion of p onal inf oad ing cycl ed to in	e LPOI (examination regu	3 candidates (approx	ination of one cand	idate each (30 to 60 minutes) or or e) presentation (20 to 45 minu
d) oral tes) Allocat  Additic  Worklo  Teachin  Referre  Modulo	examir tion of p onal inf oad ing cycl ed to in e appea	e LPOI (examination regu	3 candidates (approx	ination of one cand	idate each (30 to 60 minutes) or or e) presentation (20 to 45 minu
d) oral tes) Allocat  Additic  Worklo  Teachi  Referre  Modulo	examir tion of p onal inf oad ing cycl ed to in e appea r's degr	e LPOI (examination regu	3 candidates (approx	ination of one cand	idate each (30 to 60 minutes) or or e) presentation (20 to 45 minu

Module	e title				Abbreviation
Bacterial genetics - Infectiology			03-98-PBG-092-m01		
Module coordinator Modu			Module offered by	odule offered by	
Institut	e of Mo	olecular Infection Biology		Faculty of Medicine	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate	Admission prerequis	site to assessment:	regular attendance of courses
			(lectures excluded)	as specified at the b	eginning of the course.
Conten	Its				
cular m	nicrobio		are analysed with the	e help of examples o	n selected questions from mole- f gene transfer. Molecular genetio biology.
Intend	ed lear	ning outcomes			
based tics. Th	on indi Iey also	vidually assigned tasks,	using techniques of n experimental design	nodern molecular bi	problems in bacterial genetics ology, microbiology and gene- analysis and the presentation of
Course	<b>s</b> (type	, number of weekly conta	ct hours, language —	· if other than Germa	in)
V + S +	Ü (no i	nformation on SWS (wee	kly contact hours) an	d course language a	vailable)
		sessment (type, scope, la ion on whether module ca			tion offered — if not every seme-
on of o	ne can		ninutes) or d) oral ex	amination in groups	to 20 pages) or c) oral examinati- of up to 3 candidates (approx. 15
Allocat		· · · ·		·	
			s. Biochemistry Mast	er's: 4 places. Place	s will be allocated by lot.
		ormation	,		,
Worklo	ad				
Teaching cycle					
-					
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)					
Module	e appea	ars in			
		ree (1 major) Biomedicine	e (2009)		
	-	ree (1 major) Biomedicine	-		
Master's degree (1 major) Biochemistry (2012)					

Module title					Abbreviation	
Human genetics				03-MS2HG-122-m01		
Module coordinator				Module offered by		
holder	of the (	Chair of of Human Genetic	cs	Faculty of Medicine		
ECTS		od of grading	Only after succ. com	pl. of module(s)		
10	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
2 seme	ster	graduate				
Conten	ts					
This mo	odule w	vill discuss current topics	in human genetics.			
Intende	ed leari	ning outcomes				
Studen detail.	ts have	e developed the ability to	understand relevant	questions in human	genetics and to discuss these in	
Course	<b>s</b> (type	, number of weekly conta	ct hours, language —	if other than Germa	n)	
V + S (n	io infor	mation on SWS (weekly o	contact hours) and co	ourse language availa	able)	
		s <b>essment</b> (type, scope, la on on whether module ca			tion offered — if not every seme-	
one of t questio	he foll ns) or	owing options will be cho	osen: a) written exam e candidate each (3c	ination (30 to 60 min	nt prior to the course. Usually, nutes, including multiple choice oral examination in groups of	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	Workload					
Teaching cycle						
<u>_</u>						
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)						
Module	appea	irs in				
Master'	s degr	ee (1 major) Biochemistry	(2012)			

Module title	Module title			Abbreviation		
Immunology 1	L			03-MS2IM1-122-m01		
Module coord	inator		Module offered by			
holder of the I	Professorship of Immuno	genetics	Faculty of Medicine			
· · · · · · · · · · · · · · · · · · ·	od of grading	Only after succ. com	pl. of module(s)			
10 nume	rical grade					
Duration	Module level	Other prerequisites				
1 semester	graduate					
Contents						
mune-mediate		This incorporates co	mmon literature read	ow a deeper understanding of im- lings, presentations and tests on guage.		
Intended lear	ning outcomes					
	gain a knowledge of fund le to present and discuss		d methods in molec	ular and cellular immunology		
Courses (type	, number of weekly conta	ct hours, language —	if other than Germa	n)		
V + S (no infor	mation on SWS (weekly o	contact hours) and co	ourse language availa	able)		
	<b>sessment</b> (type, scope, la on on whether module ca			tion offered — if not every seme-		
Students will be informed about the method, 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) 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)						
Allocation of p	olaces					
Biochemistry	Master's: 3 places. Places	s will be allocated by	lot.			
Additional inf	ormation					
Workload						
Teaching cycle						
Referred to in	<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)					
Module appea	ors in					
	Module appears in Master's degree (1 major) Biochemistry (2012)					
master s uegr		(2012)				

Module title					Abbreviation
Immune	ology 2	1			03-MS2IM2-122-m01
Module	coord	inator		Module offered by	
holder	of the F	Professorship of Immuno	genetics	Faculty of Medicine	
ECTS		od of grading	Only after succ. com	pl. of module(s)	
10		rical grade			
Duratio		Module level	Other prerequisites		
1 semes	ster	graduate			
Conten	ts				
such as on, infe	autoir ection i	nmunity and immune mo	dulation, developme his incorporates com	nt of the immune sy mon literature readin	ected immunology chapters , stem, immunogenetics, evoluti- ngs, presentations and tests on
Intende	ed learr	ning outcomes			
Studen	ts are a	ble to understand currer	it problems in immur	ology and to discus	s these in detail.
Course	<b>s</b> (type,	number of weekly conta	ct hours, language —	if other than Germa	n)
V + S (n	io infor	mation on SWS (weekly o	contact hours) and co	urse language availa	able)
		<b>essment</b> (type, scope, la on on whether module ca			tion offered — if not every seme-
Students will be informed about the method, 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) 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)					
Allocation of places					
Biocher	mistry l	Master's: 3 places. Places	s will be allocated by	lot.	
Additional information					
Workload					
Teaching cycle					
Referre	d to in	LPOI (examination regu	lations for teaching-c	legree programmes)	
Module	appea	rs in			
		ee (1 major) Biochemistry	(2012)		

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Virology 1       03-MS2V1-122-m01         Module cortinator       Module offered by         holder of the Chair of Virology       Faculty of Medicine         ECTS       Method of grading       Only after succ. compl. of module(s)         10       numerical grade          Duration       Module level       Other prerequisites         1 semester       graduate          Contents       This module will discuss contemporary topics in virology.       Intended learning outcomes         Students are able to understand current problems in virology and to discuss these in detail.       Courses (type, number of weekly contact hours, language – if other than German)         V + S (no information on SWS (weekly contact hours) and course language available)       Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module can be chosen to earn a bonus)         Students will be informed about the method, 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) oral examination of one candidate each (30 to 60 minutes) or c) oral examination in groups of up to 3 capters. Jo takes will be allocated by lot.         Additionation of places       Places       Places         Biochemistry Master's: 3 places. Places will be allocated by lot.       Additiontermation					
holder of the Chair of Virology       Faculty of Medicine         ECTS       Method of grading       Only after succ. compl. of module(s)         10       numerical grade          Duration       Module level       Other prerequisites         1 semester       graduate          Contents          This module will discuss contemporary topics in virology.       Intended learning outcomes         Students are able to understand current problems in virology and to discuss these in detail.       Courses (type, number of weekly contact hours, language — if other than German)         V + S (no information on SWS (weekly contact hours) and course language available)       Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)         Students will be informed about the method, 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) oral examination of one candidate each (30 to 60 minutes) or c) oral examination in groups of up to 3 candidates (approx. 30 to 60 minutes)         Allocation of places         Biochemistry Master's: 3 places. Places will be allocated by lot.					
ECTS       Method of grading       Only after succ. compl. of module(s)         10       numerical grade          Duration       Module level       Other prerequisites         1 semester       graduate          Contents          This module will discuss contemporary topics in virology.       Intended learning outcomes         Students are able to understand current problems in virology and to discuss these in detail.       Courses (type, number of weekly contact hours, language — if other than German)         V + S (no information on SWS (weekly contact hours) and course language available)       Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)         Students will be informed about the method, 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) oral examination of one candidate each (30 to 60 minutes) or c) oral examination in groups of up to 3 candidates (approx. 30 to 60 minutes)         Allocation of places       Biochemistry Master's: 3 places. Places will be allocated by lot.					
10       numerical grade          Duration       Module level       Other prerequisites         1 semester       graduate          Contents        Contents         This module will discuss contemporary topics in virology.       Intended learning outcomes         Students are able to understand current problems in virology and to discuss these in detail.       Courses (type, number of weekly contact hours, language — if other than German)         V + S (no information on SWS (weekly contact hours) and course language available)       Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)         Students will be informed about the method, 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) oral examination of one candidate each (30 to 60 minutes) or c) oral examination in groups of up to 3 candidates (approx. 30 to 60 minutes)         Allocation of places         Biochemistry Master's: 3 places. Places will be allocated by lot.					
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<ul> <li>Students are able to understand current problems in virology and to discuss these in detail.</li> <li>Courses (type, number of weekly contact hours, language — if other than German)</li> <li>V + S (no information on SWS (weekly contact hours) and course language available)</li> <li>Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)</li> <li>Students will be informed about the method, 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) oral examination of one candidate each (30 to 60 minutes) or c) oral examination in groups of up to 3 candidates (approx. 30 to 60 minutes)</li> <li>Allocation of places</li> <li>Biochemistry Master's: 3 places. Places will be allocated by lot.</li> </ul>					
<ul> <li>Courses (type, number of weekly contact hours, language — if other than German)</li> <li>V + S (no information on SWS (weekly contact hours) and course language available)</li> <li>Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)</li> <li>Students will be informed about the method, 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) oral examination of one candidate each (30 to 60 minutes) or c) oral examination in groups of up to 3 candidates (approx. 30 to 60 minutes)</li> <li>Allocation of places</li> <li>Biochemistry Master's: 3 places. Places will be allocated by lot.</li> </ul>					
<ul> <li>V + S (no information on SWS (weekly contact hours) and course language available)</li> <li>Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)</li> <li>Students will be informed about the method, 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) oral examination of one candidate each (30 to 60 minutes) or c) oral examination in groups of up to 3 candidates (approx. 30 to 60 minutes)</li> <li>Allocation of places</li> <li>Biochemistry Master's: 3 places. Places will be allocated by lot.</li> </ul>					
Method of assessment (type, scope, language — if other than German, examination offered — if not every seme- ster, information on whether module can be chosen to earn a bonus) Students will be informed about the method, 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) oral examination of one candidate each (30 to 60 minutes) or c) oral examination in groups of up to 3 candidates (approx. 30 to 60 minutes) Allocation of places Biochemistry Master's: 3 places. Places will be allocated by lot.					
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Biochemistry Master's: 3 places. Places will be allocated by lot.					
Additional information					
Workload					
Teaching cycle					
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)					
Module appears in					
Master's degree (1 major) Biochemistry (2012)					

Module title Abbreviation					Abbreviation
Virolog	y 2				03-MS2V2-122-m01
Module	e coord	inator		Module offered by	
holder	of the (	Chair of Virology		Faculty of Medicine	
ECTS		od of grading	Only after succ. com	pl. of module(s)	
10		rical grade			
Duratio		Module level	Other prerequisites		
1 seme	ster	graduate			
Conten					
This mo	odule w	vill discuss contemporary	topics in virology.		
Intende	ed lear	ning outcomes			
Studen	ts are a	able to understand currer	nt problems in virolog	y and to discuss the	ese in detail.
Course	<b>s</b> (type	, number of weekly conta	ct hours, language —	if other than Germa	n)
V + S (r	no infor	mation on SWS (weekly o	contact hours) and co	urse language avail	able)
		s <b>essment</b> (type, scope, la on on whether module ca			tion offered — if not every seme-
one of questic	the foll ons) or	owing options will be cho	osen: a) written exam e candidate each (30	ination (30 to 60 mi	nt prior to the course. Usually, nutes, including multiple choice ) oral examination in groups of
Allocation of places					
Biochemistry Master's: 3 places. Places will be allocated by lot.					
Additio	onal inf	ormation			
Workload					
Teaching cycle					
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)					
				0 1 0 /	
Module	e appea	irs in			
		ee (1 major) Biochemistry	(2012)		

Module title				Abbreviation	
Molecu	ılar Tur	nor Biology			03-MTUB-092-m01
Modul	e coord	inator		Module offered by	
holder	of the (	Chair of Physiological Che	emistry	Faculty of Medicine	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)	
5	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ester	undergraduate			
Conter	nts				
		duction to model system 1. Reading and presentati			mental methods of molecular tu-
		ning outcomes			
Studer	nts are f			techniques in mole	cular cancer research, and they
Course	<b>s</b> (type	, number of weekly conta	ct hours, language –	· if other than Germa	n)
Ü (no i	nforma	tion on SWS (weekly cont	act hours) and cours	e language available	
		sessment (type, scope, la ion on whether module ca			tion offered — if not every seme-
about Assess	the met sment o	roups of 3: approx. 40 mi hod and length of the as: ffered: once a year, winte ssessment: German, Eng	sessment prior to the er semester		utes). Students will be informed
Allocat	tion of p	places			
ons ex (two th me ave the res by lot.	ceed th iirds of erage gr pective A waitin	e number of available pla places): current average rade, places will be alloca applicant; among applic	aces, places will be a grade of successfully ated by lot. Quota 2 ( cants with the same r and places re-alloca	llocated according to completed modules one third of places): number of subject se	Should the number of applicati- the following quotas: Quota 1 ; among applicants with the sa- number of subject semesters of mesters, places will be allocated available. Selection process Bio-
Additio	onal inf	ormation			
Worklo	ad				
Teachi	ng cycl	e			
		•			
Referre	ed to in	LPO I (examination regu	lations for teaching of	legree programmes)	
Modul	e appea	ars in			
		ree (1 major) Biochemistr	V (2011)		
	-	ree (1 major) Biochemistr	•		
	-	ee (1 major) Biochemistry			

Master's with 1 major Biochemistry (2012)

Modul	e title				Abbreviation
Labora	atory an	imal sciences			03-VTK-092-m01
Modul	e coord	inator		Module offered by	l
Anima	l Welfaı	re Officer of the University	/ of Würzburg	Faculty of Medicine	
ECTS		od of grading	Only after succ. con	npl. of module(s)	
2	(not)	successfully completed			
Durati	on	Module level	Other prerequisites		
1 seme	ester	undergraduate			regular attendance of lab course
<u> </u>			as specified at the L	beginning of the cour	56.
Conter					
Theore mal sc		nd practical basic knowle	dge of animal welfare	e legislation, animal	welfare ethics and laboratory ani
Intend	ed lear	ning outcomes			
Studer SA (Ca		e the expertise to carry ou	it or participate in an	imal experiments ac	cording to the guidelines of FELA-
Course	<b>es</b> (type	, number of weekly conta	ict hours, language –	- if other than Germa	n)
V + P (	no infoi	mation on SWS (weekly o	contact hours) and co	ourse language avail	able)
		<b>sessment</b> (type, scope, la ion on whether module ca			tion offered — if not every seme-
writter	ı exami	nation (approx. 60 minut	es)		
Alloca	tion of	places			
Additio	onal inf	ormation			
Worklo	oad				
Teachi	ing cycl	e			
Referre	ed to in	LPOI (examination regu	lations for teaching-o	degree programmes)	
Modul	e appea	ars in			
Bache	lor' deg	ree (1 major) Biochemisti	y (2011)		
	-	ree (1 major) Biochemistr			
Master	r's degr	ee (1 major) Biochemistry	/ (2012)		

Module title					Abbreviation	
Bioinfo	ormatics	5		-	07-3A3BI-072-m01	
Module	e coord	inator		Module offered by		
holder	of the (	Chair of Bioinformatics		Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
2	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate				
Conten	Its					
Fundar	nental I	orinciples of bioinforma	itics.			
Intend	ed learr	ning outcomes				
		proficient in methods fo	r the analysis of DNA a	and protein database	<u>م</u>	
		, number of weekly con				
		omprises 2 module con			-	ach modulo
compo			iponents. mormation	on courses will be in	steu separately for e	
		I-1B-072: V (no informa	tion on SWS (weekly c	ontact hours) and co	ourse language avail	able)
• 0	07-3A3B	I-2B-072: S (no informa	tion on SWS (weekly o	contact hours) and co	ourse language avail	able)
		essment (type, scope, on on whether module			tion offered — if not	every seme-
-					a componente ac en	ocified be
		this module comprise     ated otherwise, succes				
	assessi			inoutie marequire.		
		n module component og		ormatics (Lecture)		
		Method of grading: nun examination (approx. 2)	-			
		module component o	-	formatics (Seminar)		
		Nethod of grading: (not				
• t	erm pa	per (approx. 5 to 10 pag	es)			
Allocat	ion of p	olaces				
Only as	s part o	f Biochemistry Master's	: <u>5</u> places. Places will	be allocated by lot.		
Additio	onal info	ormation				
Worklo	ad					
Teachi	ng cycl	2				
		-				
Poforro	d to in	LPOI (examination reg	ulations for toaching	dogroo programmos)		
Module	e appea	rs in				
Bachel	or' degi	ree (1 major) Biochemis	try (2011)			
	-	ree (1 major) Biochemis	-			
Bachel	or' deg	ree (1 major) Biology (2	007)			
	-	ree (1 major) Mathemat				
	-	ree (1 major) Mathemat				
	-	ree (1 major) Computati		09)		
		ee (1 major) Biochemist				
		gree (1 major, 1 minor)   Biochemistry (2012)		Irg • generated 26-Aug-2024	• exam	page 19 / 63
	i majoi	2.00.101113(1) (2012)		rd Master (120 ECTS) Biochen		Puse 19 / 03

Modul	e title				Abbreviation
Bioinfo	ormatic	s for advanced Students	in Biochemistry		07-4BFMZ4-BC-092-m01
Modul	e coord	inator		Module offered by	
holder	of the (	Chair of Bioinformatics		Faculty of Biology	
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)	
5	nume	rical grade			
Durati	on	Module level	Other prerequisites		
1 seme	ester	undergraduate		pletion of the respe	regular attendance of exercises ctive exercises as specified at the
Conter	nts				
					ver the following topics: se- etworks as well as gene regulati-
Intend	ed lear	ning outcomes			
Studer their re		able to use appropriate b	ioinformatic algorith	ms to address simpl	e problems as well as to interpre
Course	es (type	, number of weekly conta	act hours, language –	- if other than Germa	an)
V + Ü (	no infoi	rmation on SWS (weekly	contact hours) and co	ourse language avai	lable)
		sessment (type, scope, la ion on whether module c			ation offered — if not every seme
log (ap Assess	oprox. 10 sment o	o to 20 pages) ffered: once a year, sum ssessment: German or E	mer semester		
Alloca	tion of p	places			
the nu lowing applica subjec	mber of quotas ants wit t semes	f applications exceed the Cuota 1 (two thirds of p th the same average grad sters of the respective ap	number of available laces): current avera e, places will be alloo plicant; among appli	places, places will l ge grade of success cated by lot. Quota cants with the same	Biochemistry) Bachelor's: Should oe allocated according to the fol- fully completed modules; among 2 (one third of places) number of e number of subject semesters, llocated as they become availa-
Additi	onal inf	ormation			
Worklo	bad				
Teachi	ng cycl	e			
	ed to in	LPOI (examination regu	llations for teaching-o	degree programmes	)
Referre				0.000	,
Referre					
	e appea	ars in			

Module title				Abbreviation		
Presen	Presentation of Scientific Data 07-MPWD-112-m01					
Modul	e coord	inator		Module offered by		
Coordi	nator B	ioCareers		Faculty of Biology		
ECTS		od of grading	Only after succ. con	npl. of module(s)		
5	(not)	successfully completed				
Duratio		Module level	Other prerequisites			
1 seme	ester	graduate				
Conter	nts					
dents we the log per or rewell as ons ca of chap less the ding per kers.	will writ review s on rev n be fo oters ar an 20 s resenta <b>ed lear</b> udents r with t nglish r	te a scientific mini review ain of arguments will be of on a selected topic in a so iews and will follow the in und on the website of the ad structure of the article scientific talks (e. g. defer tions by guest speakers. <b>ning outcomes</b> are familiar with the deta he methodology of scient reading, speaking and wr	and present this in a discussed. Students v cientific journal. The instructions of a scient respective journal u should be based on inces of doctoral these Students are to obta ils of publishing scie tific publishing in ora iting skills.	talk (15 minutes). C will write and publish students' work will b tific journal of the st nder "Instructions to the style of the journ es, presentations of in proof of attendance ntific data in written I or written fashion.	and oral form. They have enhanced	
		, number of weekly conta				
S (no i	nforma	tion on SWS (weekly cont	act hours) and cours	e language available		
		<b>sessment</b> (type, scope, la ion on whether module ca			tion offered — if not every seme-	
followi or b) lo	ng opti og (app	ons will be chosen: a) wr rox. 10 to 30 pages) or c)	itten examination (3c oral examination of c	to 60 minutes, incluence of the minutes of the minu	o the course. Usually, one of the uding multiple choice questions) 30 to 60 minutes) or d) oral ex- entation (20 to 45 minutes)	
Allocat	tion of	places				
Biolog	y Maste	er's: no restrictions. Bioch	emistry Master's: 10	places. Places will b	e allocated by lot.	
Additio	onal inf	ormation				
Worklo	ad					
Teachi	ng cycl	e				
Referre	ed to in	LPO I (examination regu	lations for teaching-o	legree programmes)		
Modul	e appea	ars in				
		ee (1 major) Biochemistry	r (2012)			
	-	ee (1 major) Biology (201				
Master	Master's degree (1 major) Biology (2014)					

Module	title				Abbreviation
Bioinfo	rmatic	s (Lecture and Seminar)			07-MS2BI-102-m01
		lunter.		Madula offered by	<u> </u>
Module		· · · · · · · · · · · · · · · · · · ·		Module offered by	
		Chair of Bioinformatics	Only offer and	Faculty of Biology	
ECTS		od of grading	Only after succ. com	ipl. of module(s)	
10		rical grade			
Duratio		Module level graduate	Other prerequisites		
		giauuale			
Conten					
and see	quence		ns and protein familie	es, large-scale data a	is includes results from genome analysis (e. g. net generation se-
	· · · ·			(INAS (e. g. IIIKINAS,	
		ning outcomes		1	
		cent results in bioinform al technologies and resea			advanced (Master) level know-
Course	<b>s</b> (type	, number of weekly conta	ct hours, language —	if other than Germa	in)
S + V (r	infor	mation on SWS (weekly o	contact hours) and co	urse language avail	able)
		e <b>ssment</b> (type, scope, la on on whether module ca			tion offered — if not every seme-
					nt prior to the course. Usually,
					nutes, including multiple choice
questic	ons) or l	b) oral examination of on	e candidate each (30		) oral examination in groups of
up to 3	candid	ates (approx. 30 to 60 m	inutes)		
Allocat	ion of p	olaces			
Additio	nal info	ormation			
Worklo	ad				
Teachi	ıg cycl	e			
Referre	d to in	LPO I (examination regu	lations for teaching-c	legree programmes)	
Module	e appea	in in			
		ee (1 major) Biochemistry	(2012)		
	-	ee (1 major) Biology (201			
Master	's degre	ee (1 major) Biology (2010	o)		
	-	ee (1 major) Biology (2014			
	-	ee (1 major) Mathematics			
Mactor	's degre	ee (1 major) Computation	al Mathematics (2012	2)	

Module					Abbreviation	
Biophy	sics an	d Molecular Biotechnolo	gy (Lecture and Sem	inar)	07-MS2BT-102-m01	
Module	e coord	inator		Module offered by	·	
holder	of the (	Chair of Biotechnology ar	d Biophysics	Faculty of Biology		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
10	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
ture dis moves single i physio	on to d nolecu logy, io	s fundamental aspects of iscuss biophysical metho les. Focus is on electrom	thermodynamics, kin ods that facilitate the anipulation and diele	netics and molecula investigation of ind actric spectroscopy of	ications. The first part of the lec- r interactions. The course then lividual cells down to the level of of cells, biomembranes, electro- ls and high-resolution as well as	
		ning outcomes				
Studen enable	ts will them t	have acquired a knowled	elevant literature. In a	addition, they will ha	and their applications that will ave become acquainted with - or, hysical mechanisms.	
Course	<b>s</b> (type	, number of weekly conta	ct hours, language —	if other than Germa	in)	
V + S (r	no infor	mation on SWS (weekly o	contact hours) and co	urse language avail	able)	
		<b>sessment</b> (type, scope, la on on whether module ca			tion offered — if not every seme-	
one of questic	the foll ons) or	owing options will be cho	osen: a) written exam le candidate each (3c	ination (30 to 60 mi	ent prior to the course. Usually, nutes, including multiple choice ) oral examination in groups of	
Allocat	ion of p	olaces				
Bioche	mistry	Master's: 4 places. Place	s will be allocated by	lot.		
		ormation	· · · · ·			
Worklo	ad					
Teachi	ng cvcl	e				
		-				
Referre	d to in	LPOI (examination regu	lations for teaching.	legree programmes)		
Module	annea	urs in				
		ee (1 major) Biochemistry	(2012)			
	-					
Master	Master's degree (1 major) Biology (2011)					
	-	ee (1 major) Biology (201)				

Master's with 1 major Biochemistry	(2012)
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Module	e title				Abbreviation
Microb	Microbiology 1 (Lecture and Seminar)				07-MS2M1-112-m01
Module	e coord	inator		Module offered by	
holder	of the (	Chair of Microbiology		Faculty of Biology	
ECTS		od of grading	Only after succ. com	npl. of module(s)	
10	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
al path	ogenici				adherence and invasion, bacteri- nd pathogen interference, current
Intende	ed learı	ning outcomes			
		are able to understand fu infectious diseases.	ndamental theories o	of molecular microbi	ology and infection biology,
Course	<b>s</b> (type	, number of weekly conta	ct hours, language —	if other than Germa	in)
V + S (r	no infor	mation on SWS (weekly o	contact hours) and co	ourse language avail	able)
		e <b>ssment</b> (type, scope, la on on whether module ca	5 5		tion offered — if not every seme-
one of t questic	the foll ons) or	owing options will be cho	osen: a) written exam e candidate each (3c	ination (30 to 60 mi	nt prior to the course. Usually, nutes, including multiple choice ) oral examination in groups of
Allocat			,		
		r's: no restrictions. Bioch	emistry Master's: 15	places. Places will b	e allocated by lot.
		ormation	, ,		,
Worklo	ad				
Teachi	Teaching cycle				
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)					
Module	Module appears in				
		ee (1 major) Biochemistry	(2012)		
	-	ee (1 major) Biology (201			
	-	ee (1 major) Biology (201			

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Module	e title				Abbreviation
Microb	iology	2 (Lecture and Seminar)			07-MS2M2-112-m01
Module coordinator				Module offered by	
holder	of the (	Chair of Microbiology		Faculty of Biology	
ECTS	·	od of grading	Only after succ. com	pl. of module(s)	
10	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	ts				
ted pro	karyoti				will be presented using selec- rent research methods in infecti-
Intende	ed lear	ning outcomes			
		e gained fundamental kno infectious diseases.	owledge in infection l	piology and pathoge	nicity research and the mecha-
Course	<b>s</b> (type	, number of weekly conta	ct hours, language —	if other than Germa	in)
V + S (r	no infor	mation on SWS (weekly o	contact hours) and co	ourse language avail	able)
		<b>sessment</b> (type, scope, la on on whether module ca			tion offered — if not every seme-
one of questic	the foll ons) or	owing options will be cho	osen: a) written exam e candidate each (3c	ination (30 to 60 mi	nt prior to the course. Usually, nutes, including multiple choice ) oral examination in groups of
Allocat			,		
		r's: no restrictions. Bioch	emistry Master's: 15	places. Places will b	e allocated by lot.
		ormation		•	·
Worklo	ad				
Teachi	ng cvcl	e			
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)					
Module	e appea	ars in			
		ee (1 major) Biochemistry	(2012)		
Master	's degr	ee (1 major) Biology (201	1)		
Master	's degr	ee (1 major) Biology (201	4)		

	e title			·	Abbreviation
Bioinorganic Chemistry					08-ACM2-102-m01
Module	e coord	inator		Module offered by	I
and Me	edizinis	ninar "Anorganische Asp schen Chemie" (Inorganic edicinal Chemistry)		Institute of Inorgan	ic Chemistry
ECTS	Meth	od of grading	Only after succ. con	npl. of module(s)	
5		rical grade		• • • •	
Duratio	on	Module level	Other prerequisites		
1 seme	ster	graduate			
Conten	Its				
	ds of Bl				chemistry (BIC). It discusses the ns of BIC in the fields of diagnosi
Intend	ed lear	ning outcomes			
		able to describe the princ us enzymes and describe			xplain the structure and effects medicine.
Course	e <b>s</b> (type	, number of weekly conta	ict hours, language –	- if other than Germa	an)
S (no ir	nforma	tion on SWS (weekly cont	act hours) and cours	e language availabl	e)
MIELIIO	a vi as.	<b>cosinclit</b> (type, scope, to	inguage – n otner th	an German, examina	ation offered — if not every seme
ster, in a) 1 to g oral exa thods o the cur	format 3 writte aminat of asse rrent se	on on whether module c n examinations (60 or 90 ion in groups (groups of 2	an be chosen to earn o minutes) or b) oral ( 2, 30 minutes). Shou dinator will choose th of the course.	a bonus) examination of one o ld there be the optio	candidate each (20 minutes) or c
ster, in a) 1 to g oral exa thods o the cur	format 3 writte aminat of asse rrent se age of a	on on whether module c n examinations (60 or 90 ion in groups (groups of ssment, the module coor mester at the beginning ssessment: German or E	an be chosen to earn o minutes) or b) oral ( 2, 30 minutes). Shou dinator will choose th of the course.	a bonus) examination of one o ld there be the optio	andidate each (20 minutes) or c n to choose between several me
ster, in a) 1 to g oral exa thods o the cur Langua	format 3 writte aminat of asse rrent se age of a	on on whether module c n examinations (60 or 90 ion in groups (groups of ssment, the module coor mester at the beginning ssessment: German or E	an be chosen to earn o minutes) or b) oral ( 2, 30 minutes). Shou dinator will choose th of the course.	a bonus) examination of one o ld there be the optio	candidate each (20 minutes) or c n to choose between several me
ster, in a) 1 to 3 oral exa thods o the cur Langua Allocat	formation 3 writte aminatiof assest rent se age of a <b>cion of j</b>	on on whether module c n examinations (60 or 90 ion in groups (groups of ssment, the module coor mester at the beginning ssessment: German or E	an be chosen to earn o minutes) or b) oral ( 2, 30 minutes). Shou dinator will choose th of the course.	a bonus) examination of one o ld there be the optio	candidate each (20 minutes) or c n to choose between several me
ster, in a) 1 to 3 oral exa thods o the cur Langua Allocat	formation 3 writte aminatiof assest rent se age of a <b>cion of j</b>	ion on whether module c in examinations (60 or 90 ion in groups (groups of a ssment, the module coor mester at the beginning of ssessment: German or E <b>blaces</b>	an be chosen to earn o minutes) or b) oral ( 2, 30 minutes). Shou dinator will choose th of the course.	a bonus) examination of one o ld there be the optio	candidate each (20 minutes) or c n to choose between several me
ster, in a) 1 to 3 oral exa thods o the cur Langua Allocat	format 3 writte aminat of asse rrent se age of a <b>ion of </b> <b>pnal inf</b>	ion on whether module c in examinations (60 or 90 ion in groups (groups of a ssment, the module coor mester at the beginning of ssessment: German or E <b>blaces</b>	an be chosen to earn o minutes) or b) oral ( 2, 30 minutes). Shou dinator will choose th of the course.	a bonus) examination of one o ld there be the optio	ation offered — if not every seme- candidate each (20 minutes) or c n to choose between several me d for the module component in
ster, in a) 1 to 2 oral exa thods of the cur Langua Allocat  Additio	format 3 writte aminat of asse rrent se age of a <b>ion of </b> <b>pnal inf</b>	ion on whether module c in examinations (60 or 90 ion in groups (groups of a ssment, the module coor mester at the beginning of ssessment: German or E <b>blaces</b>	an be chosen to earn o minutes) or b) oral ( 2, 30 minutes). Shou dinator will choose th of the course.	a bonus) examination of one o ld there be the optio	candidate each (20 minutes) or c n to choose between several me
ster, in a) 1 to 2 oral exa thods of the cur Langua Allocat  Additio  Worklo	format 3 writte aminat of asse- rent se age of a <b>:ion of p</b> <b>onal inf</b>	ion on whether module connexaminations (60 or 90 ion in groups (groups of a ssment, the module coor mester at the beginning of ssessment: German or E <b>blaces</b>	an be chosen to earn o minutes) or b) oral ( 2, 30 minutes). Shou dinator will choose th of the course.	a bonus) examination of one o ld there be the optio	candidate each (20 minutes) or c n to choose between several me
ster, in a) 1 to 2 oral exa thods of the cur Langua Allocat  Additio	format 3 writte aminat of asse- rent se age of a <b>:ion of p</b> <b>onal inf</b>	ion on whether module connexaminations (60 or 90 ion in groups (groups of a ssment, the module coor mester at the beginning of ssessment: German or E <b>blaces</b>	an be chosen to earn o minutes) or b) oral ( 2, 30 minutes). Shou dinator will choose th of the course.	a bonus) examination of one o ld there be the optio	candidate each (20 minutes) or c n to choose between several me
ster, in a) 1 to 2 oral exa thods of the cur Langua Allocat  Additio  Worklo  Teachin 	format 3 writte aminat of asse- rent se age of a <b>ion of p</b> <b>onal inf</b> <b>onal inf</b>	ion on whether module connexaminations (60 or 90 ion in groups (groups of a ssment, the module coornester at the beginning of a ssessment: German or E blaces ormation	an be chosen to earn o minutes) or b) oral e 2, 30 minutes). Shou dinator will choose th of the course. nglish	a bonus) examination of one o ld there be the optio ne method to be use	candidate each (20 minutes) or c n to choose between several me d for the module component in
ster, in a) 1 to 2 oral exa thods of the cur Langua Allocat  Additio  Worklo  Teachin 	format 3 writte aminat of asse- rent se age of a <b>ion of p</b> <b>onal inf</b> <b>onal inf</b>	ion on whether module connexaminations (60 or 90 ion in groups (groups of a ssment, the module coor mester at the beginning of ssessment: German or E <b>blaces</b>	an be chosen to earn o minutes) or b) oral e 2, 30 minutes). Shou dinator will choose th of the course. nglish	a bonus) examination of one o ld there be the optio ne method to be use	candidate each (20 minutes) or c n to choose between several me d for the module component in
ster, in a) 1 to 2 oral exa thods of the cur Langua Allocat  Additio  Worklo  Teachin  Referre 	format 3 writte aminat of asses rent se age of a tion of p onal inf onal inf onal inf onal inf	ion on whether module connexaminations (60 or 90 ion in groups (groups of assment, the module coornester at the beginning of assessment: German or Ecolaces ormation e LPOI (examination regu	an be chosen to earn o minutes) or b) oral e 2, 30 minutes). Shou dinator will choose th of the course. nglish	a bonus) examination of one o ld there be the optio ne method to be use	candidate each (20 minutes) or c n to choose between several me d for the module component in
ster, in a) 1 to 2 oral exa thods of the cur Langua Allocat  Worklo  Teachin  Referre  Module	format 3 writte aminat of asse rent se age of a ion of p onal inf onal inf onal inf ed to in	ion on whether module connexaminations (60 or 90 ion in groups (groups of a ssment, the module coornester at the beginning of ssessment: German or E blaces ormation e LPOI (examination regu	an be chosen to earn o minutes) or b) oral e 2, 30 minutes). Shou dinator will choose th of the course. nglish	a bonus) examination of one o ld there be the optio ne method to be use	candidate each (20 minutes) or c n to choose between several me d for the module component in
ster, in a) 1 to 2 oral exit thods of the cur Langua Allocat  Additio  Worklo  Teachin  Referre  Module	format 3 writte aminat of asse rent se age of a <b>ion of p</b> <b>onal inf</b> <b>onal inf</b> <b>oad</b> <b>ng cycl</b> <b>ed to in</b>	ion on whether module come caminations (60 or 90 ion in groups (groups of a sament, the module coor mester at the beginning of a sament: German or E blaces ormation e LPO I (examination regurates in the same compare) Biochemistry are same compared by the same c	an be chosen to earn o minutes) or b) oral o 2, 30 minutes). Shou dinator will choose th of the course. nglish	a bonus) examination of one o ld there be the optio ne method to be use	candidate each (20 minutes) or c n to choose between several me d for the module component in
ster, in a) 1 to 2 oral exa thods of the cur Langua Allocat  Additio  Worklo  Teachin  Referre Master Master	format 3 writte aminat of asse- rent se age of a <b>ion of p</b> <b>onal inf</b> <b>onal inf</b> <b>onal inf</b> <b>other</b> <b>other</b> <b>other</b> <b>other</b>	ion on whether module connexaminations (60 or 90 ion in groups (groups of a ssment, the module coornester at the beginning of ssessment: German or E blaces ormation e LPOI (examination regu	an be chosen to earn o minutes) or b) oral o 2, 30 minutes). Shou dinator will choose th of the course. nglish	a bonus) examination of one o ld there be the optio ne method to be use	candidate each (20 minutes) or c n to choose between several me d for the module component in

Module title				Abbreviation	
Contemporary Biochemical Methods				08-AMB-122-m01	
Module coordinator N			Module offered by		
holder of th	e Chair of Biochemistry		Chair of Biochemis	try	
	hod of grading	Only after succ. con	npl. of module(s)		
5 nur	nerical grade				
Duration	Module level	Other prerequisites			
1 semester	graduate				
Contents					
				in biochemistry. Renowned ex- s of those methods in depth and	
Intended le	arning outcomes				
be the meth wers to nev	ods covered in the module problems in biochemistry.	as well as to critical	y evaluate whether t	y are able to explain and descri- those methods can provide ans-	
Courses (ty	pe, number of weekly conta	act hours, language –	- if other than Germa	an)	
S (no inform	nation on SWS (weekly con	tact hours) and cours	e language available	2)	
	<b>assessment</b> (type, scope, la ation on whether module c			tion offered — if not every seme-	
tes each; 3	n examinations (1 written e written examinations: appr f assessment: German or E	ox. 40 minutes each)		n examinations: approx. 45 minu-	
Allocation					
Additional	nformation				
Workload					
Teaching cycle					
Referred to	in LPO I (examination regu	llations for teaching-	degree programmes)		
			· - ·		
Module app	ears in				
Master's de	gree (1 major) Biochemistr	y (2012)			

Master's with 1 major Biochemistry (2012)

				Abbreviation		
Molecular Biology for Biochemistry students 08-BC-MOL-122-mo1						
Module coordinator				Module offered by		
holder	of the Cl	hair of Biochemistry		Chair of Biochemist	ry	
ECTS	·	d of grading	Only after succ. con			
6	numeri	cal grade	o8-BC (module com	ponent o8-BC-1 only	)	
Duratio	1	Module level	Other prerequisites			
1 seme	ester	undergraduate				
Conter	nts					
		ecture and an exercise, t istry. Another lecture dis			n molecular physiology and func- and biosafety.	
Intend	ed learni	ing outcomes				
each o usage netic e	f the fou rules for ngineeri	r safety levels into which them. They have develo	h genetic engineering ped a knowledge an	g facilities are catego d understanding of t	what infrastructure is needed for orised and are familiar with the he theoretical principles of ge- genetic engineering as well as to	
Course	<b>es</b> (type,	number of weekly conta	ct hours, language –	- if other than Germa	n)	
compo • c	onent. 03-GTBS-	1-092: V (no information	n on SWS (weekly cor	ntact hours) and cou	sted separately for each module rse language available) nd course language available)	
					tion offered — if not every seme-	
<ul> <li>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.</li> <li>Assessment in module component og-GTBS-1-092: Genetic Engineering and Biosafety <ul> <li>1 ECTS, Method of grading: (not) successfully completed</li> <li>written examination (approx. 30 minutes)</li> </ul> </li> <li>Assessment in module component og-GTBS-1-092: Molecular Biology Molecular Biology <ul> <li>5 ECTS, Method of grading: numerical grade</li> <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> </li> <li>Allocation of places <ul> <li>Workload</li> </ul> </li> </ul>						
Teachi	Teaching cycle					
Referre	ed to in L	POI (examination regu	lations for teaching-o	degree programmes)		

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#### Module appears in

Bachelor' degree (1 major) Biochemistry (2013) Master's degree (1 major) Biochemistry (2012)

Master's with 1 major Biochemistry (2012)	JMU Würzburg • generated 26-Aug-2024 • exam.	page 29 / 63
	reg. data record Master (120 ECTS) Biochemie - 2012	

	e title				Abbreviation
Organo- and Biocatalysis					08-HKM1-102-m01
Module coordinator				Module offered by	<u> </u>
lecture	r of the	seminar "Organo- and B	iokatalvse"	Institute of Organic	Chemistry
ECTS	<b></b>	od of grading	Only after succ. con	· · ·	
5	·	rical grade			
Duratio	·	Module level	Other prerequisites		
1 seme		graduate			
Conter	its	0	<u> </u>		
proces	ses. Or plicatio	ganocatalysis: enantiose	lective implementati	on, principles, greer	oounds and enzymes in catalytic n chemistry, substance classes ects, especially regarding organic
Intend	ed learı	ning outcomes			
scribe	the stru				eas of application. They can de- able to mechanistically describe
Course	<b>s</b> (type	, number of weekly conta	ict hours, language –	- if other than Germa	an)
S (no i	nformat	ion on SWS (weekly cont	act hours) and cours	e language availabl	e)
		<b>essment</b> (type, scope, la	inguage — if other th	an German examina	
a) 1 to oral ex thods o the cur	3 writte aminati of asses rent se	n examinations (60 or 90 ion in groups (groups of 2 ssment, the module coor mester at the beginning (	2, 30 minutes). Shou dinator will choose th of the course.	a bonus) examination of one o ld there be the optic	candidate each (20 minutes) or c)
a) 1 to oral ex thods o the cur Langua	3 writte aminati of asses rrent se age of a	n examinations (60 or 90 ion in groups (groups of 2 ssment, the module coor mester at the beginning o ssessment: German or E	o minutes) or b) oral ( 2, 30 minutes). Shou dinator will choose th of the course.	a bonus) examination of one o ld there be the optic	candidate each (20 minutes) or c) on to choose between several me-
a) 1 to oral ex thods o the cur Langua	3 writte aminati of asses rent se	n examinations (60 or 90 ion in groups (groups of 2 ssment, the module coor mester at the beginning o ssessment: German or E	o minutes) or b) oral ( 2, 30 minutes). Shou dinator will choose th of the course.	a bonus) examination of one o ld there be the optic	candidate each (20 minutes) or c) on to choose between several me
a) 1 to oral ex thods o the cur Langua Allocat	3 writte aminati of asses rent se age of a <b>tion of p</b>	n examinations (60 or 90 ion in groups (groups of 2 ssment, the module coor mester at the beginning o ssessment: German or E	o minutes) or b) oral ( 2, 30 minutes). Shou dinator will choose th of the course.	a bonus) examination of one o ld there be the optic	candidate each (20 minutes) or c) on to choose between several me
a) 1 to oral ex thods o the cur Langua Allocat	3 writte aminati of asses rent se age of a <b>tion of p</b>	n examinations (60 or 90 ion in groups (groups of 2 ssment, the module coor mester at the beginning o ssessment: German or E <b>blaces</b>	o minutes) or b) oral ( 2, 30 minutes). Shou dinator will choose th of the course.	a bonus) examination of one o ld there be the optic	candidate each (20 minutes) or c) on to choose between several me-
a) 1 to oral ex thods o the cur Langua Allocat	3 writte aminati of asses rent se age of a <b>:ion of p</b> <b>onal inf</b>	n examinations (60 or 90 ion in groups (groups of 2 ssment, the module coor mester at the beginning o ssessment: German or E <b>blaces</b>	o minutes) or b) oral ( 2, 30 minutes). Shou dinator will choose th of the course.	a bonus) examination of one o ld there be the optic	candidate each (20 minutes) or c) on to choose between several me-
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a) 1 to oral ex thods of the cur Langua Allocat  Additio  Worklo	3 writte aminati of asses rent se age of a <b>ion of p</b> <b>onal inf</b> <b>oad</b>	n examinations (60 or 90 ion in groups (groups of 2 ssment, the module coor mester at the beginning o ssessment: German or Er <b>blaces</b> ormation	o minutes) or b) oral ( 2, 30 minutes). Shou dinator will choose th of the course.	a bonus) examination of one o ld there be the optic	candidate each (20 minutes) or c) on to choose between several me
a) 1 to oral ex thods of the cur Langua Allocat  Additio  Worklo	3 writte aminati of asses rent se age of a <b>:ion of p</b> <b>onal inf</b>	n examinations (60 or 90 ion in groups (groups of 2 ssment, the module coor mester at the beginning o ssessment: German or Er <b>blaces</b> ormation	o minutes) or b) oral ( 2, 30 minutes). Shou dinator will choose th of the course.	a bonus) examination of one o ld there be the optic	candidate each (20 minutes) or c) on to choose between several me
a) 1 to oral ex thods of the cur Langua Allocat  Additio  Worklo  Teachi 	3 writte aminati of asses rent se age of a <b>ion of p</b> <b>onal info</b> <b>oad</b>	n examinations (60 or 90 ion in groups (groups of 2 ssment, the module coor mester at the beginning o ssessment: German or Er <b>blaces</b> ormation	o minutes) or b) oral 6 2, 30 minutes). Shou dinator will choose th of the course. nglish	a bonus) examination of one o ld there be the optic ne method to be use	candidate each (20 minutes) or c) on to choose between several me- ed for the module component in
a) 1 to oral ex thods of the cur Langua Allocat  Additio  Worklo  Teachi 	3 writte aminati of asses rent se age of a <b>ion of p</b> <b>onal info</b> <b>oad</b>	n examinations (60 or 90 ion in groups (groups of 2 ssment, the module coor mester at the beginning o ssessment: German or Er <b>blaces</b> ormation	o minutes) or b) oral 6 2, 30 minutes). Shou dinator will choose th of the course. nglish	a bonus) examination of one o ld there be the optic ne method to be use	candidate each (20 minutes) or c) on to choose between several me of for the module component in
a) 1 to oral ex thods of the cur Langua Allocat  Additio  Worklo  Teachi  Referre	3 writte aminati of asses rent se age of a <b>ion of p</b> <b>onal info</b> <b>oad</b>	n examinations (60 or 90 ion in groups (groups of 2 ssment, the module coor mester at the beginning of ssessment: German or En olaces ormation	o minutes) or b) oral 6 2, 30 minutes). Shou dinator will choose th of the course. nglish	a bonus) examination of one o ld there be the optic ne method to be use	candidate each (20 minutes) or c) on to choose between several me of for the module component in

Module title Abbreviation					Abbreviation					
Contemporary Research in Biochemistry M1					08-MBC-AFB1-122-m01					
Module coordinator M				Module offered by	<u> </u>					
holder	of the (	Chair of Biochemistry		Chair of Biochemis	try					
ECTS		od of grading	Only after succ. con	npl. of module(s)						
3	nume	rical grade								
Duratio		Module level	Other prerequisites							
2 seme	ester	graduate								
Conter	nts									
		tures discussing recent f earch methods used and			nal research. The lectures will de- f recent literature.					
Intend	ed lear	ning outcomes								
	ng of th				They have developed an under- rt presentation on those pro-					
Course	<b>es</b> (type	, number of weekly conta	ict hours, language –	- if other than Germa	ın)					
S + S (I	no infor	mation on SWS (weekly	contact hours) and co	ourse language avail	able)					
		<b>sessment</b> (type, scope, la on on whether module c			tion offered — if not every seme-					
		talk (approx. 15 to 30 mir ssessment: German or E								
Allocat	tion of p	olaces								
Additio	onal inf	ormation								
Worklo	bad									
Teaching cycle										
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)										
Modul	Module appears in									
		ee (1 major) Biochemistry	(2012)							

Module title Abbreviation					Abbreviation
Conter	nporary	Research in Biochemist	ry M2		08-MBC-AFB2-122-m01
Modul	e coord	inator		Module offered by	1
holder	of the (	Chair of Biochemistry		Chair of Biochemis	try
ECTS		od of grading	Only after succ. con	npl. of module(s)	
3	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
2 seme	ester	graduate			
Conter	nts				
		tures discussing recent f earch methods used and			nal research. The lectures will de- f recent literature.
Intend	ed lear	ning outcomes			
	ng of th				They have developed an under- rt presentation on those pro-
Course	<b>es</b> (type	, number of weekly conta	act hours, language –	- if other than Germa	an)
S + S (I	no infor	mation on SWS (weekly	contact hours) and co	ourse language avail	able)
		s <b>essment</b> (type, scope, la on on whether module c			ation offered — if not every seme-
		talk (approx. 15 to 30 miı ssessment: German or E			
Allocat	tion of p	olaces			
Additio	onal inf	ormation			
			<u>.</u>		
Worklo	bad				
Teaching cycle					
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)					
Modul	e appea	irs in			
		ee (1 major) Biochemistry	(2012)		

Module coordinator       Module offered by         Chair of Biochemistry       Chair of Biochemistry         Mistry)       Chair of Biochemistry         ECTS       Method of grading       Only after succ. compl. of module(s)         30       (not) successfully completed          Duration       Module level       Other prerequisites         1 semester       graduate          Contents           Practical course to be completed at universities abroad. Students may complete this course in the context of exchange programmes such as Erasmus etc. The contents of the course should correspond to the contents of a lab course offered in the context of the Master's programme in Biochemistry (120 ECTS credits); please consult with the competent coordinator in advance.         Intended learning outcomes       Students are familiar with procedures and processes used at universities in countries other than German)         P (no information on SWS (weekly contact hours), anguage — if other than German, examination offered — if not every semester, information on SWS (weekly contact hours) groups of 3: approx. 20 minutes) or c) oral examination on 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       Alditional information         Additional information on module duration: block lab course with a minimum duration of 15 weeks.         Workload	Module title					Abbreviation	
chairperson of examination committee Biochemie (Biochemie (Biochemie (Biochemie (Biochemistry mistry)          CTS       Method of grading       Only after succ. compl. of module(s)         30       (not) successfully completed          Duration       Module level       Other prerequisites         1 semester       graduate          Contents        Contents of the course to be completed at universities abroad. Students may complete this course in the context of exchange programmes such as Erasmus etc. The contents of the course should correspond to the contents of a lab course offered in the context of the Master's programme in Biochemistry (120 ECTS credits); please consult with the competent coordinator in advance.         Intended learning outcomes       Students are familiar with procedures and processes used at universities in countries other than Germany. They have acquired subject-specific skills as well as language and interpersonal skills.         Courses (type, number of weekly contact hours, language — if other than German)       P (no information on SWS (weekly contact hours) and course language available)         Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)         10 log (approx. 20 pages) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination or in groups (groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or d) presentation/talk (approx. 15 os ominutes) or c) oral examination on uses sessent: German or English         Additional informati	Practical course - abroad 1					08-MBC-AP1-122-m01	
mistry)  ECTS Method of grading Only after succ. compl. of module(s) (not) successfully completed  module level Other prerequisites (graduate  Contents  Practical course to be completed at universities abroad. Students may complete this course in the context of ex- change programmes such as Erasmus etc. The contents of the course should correspond to the contents of a lab course offered in the context of the Master's programme in Biochemistry (120 ECTS credits); please consult with the competent coordinator in advance.  Intended learning outcomes  Students are familiar with procedures and processes used at universities in countries other than Germany. They have acquired subject-specific skills as well as language and interpersonal skills.  Courses (type, number of weekly contact hours, language — if other than German)  P (no information on SWS (weekly contact hours) and course language available)  Method of assessment (type, scope, language — if other than German, examination offered — if not every seme- ster, information on whether module can be chosen to earn a bonus) a) log (approx. 20 pages) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examinatio.  taguage of assessment: German or English Altocation of places	Module coordinator				Module offered by		
30       (not) successfully completed          Duration       Module level       Other prerequisites         1 semester       graduate          Contents           Practical course to be completed at universities abroad. Students may complete this course in the context of exchange programmes such as Erasmus etc. The contents of the course should correspond to the contents of a lab course offered in the context of the Master's programme in Biochemistry (120 ECTS credits); please consult with the competent coordinator in advance.         Intended learning outcomes          Students are familiar with procedures and processes used at universities in countries other than Germany. They have acquired subject-specific skills as well as language and interpersonal skills.         Courses (type, number of weekly contact hours, language — if other than German)       P (no information on SWS (weekly contact hours, language — if other than German)         P (no information on SWS (weekly contact hours, language — if other than German)       P (no information on SWS (weekly contact hours, language available)         Method of assessment (type, scope, language — if other than German, examination offered — if not every seme-ster, information on whether module can be chosen to earn a bonus)       a) log (approx. 20 pages) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination on 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 <td>chairpe mistry)</td> <td>erson o</td> <td>f examination committee</td> <td>Biochemie (Bioche-</td> <td>Chair of Biochemist</td> <td>ry</td>	chairpe mistry)	erson o	f examination committee	Biochemie (Bioche-	Chair of Biochemist	ry	
Duration         Module level         Other prerequisites           1 semester         graduate	ECTS			Only after succ. com	npl. of module(s)		
a semester graduate	30						
Contents Practical course to be completed at universities abroad. Students may complete this course in the context of ex- change programmes such as Erasmus etc. The contents of the course should correspond to the context of a lab course offered in the context of the Master's programme in Biochemistry (120 ECTS credits); please consult with the competent coordinator in advance. Intended learning outcomes Students are familiar with procedures and processes used at universities in countries other than Germany. They have acquired subject-specific skills as well as language and interpersonal skills. Courses (type, number of weekly contact hours, language — if other than German) P (no information on SWS (weekly contact hours) and course language available) Method of assessment (type, scope, language — if other than German, examination offered — if not every seme- ster, information on whether module can be chosen to earn a bonus) 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) Aldicional information Additional information on module duration: block lab course with a minimum duration of 15 weeks. Workload				Other prerequisites			
Practical course to be completed at universities abroad. Students may complete this course in the context of ex- change programmes such as Erasmus etc. The contents of the course should correspond to the contents of a lab course offered in the context of the Master's programme in Biochemistry (120 ECTS credits); please consult with the competent coordinator in advance. Intended learning outcomes Students are familiar with procedures and processes used at universities in countries other than Germany. They have acquired subject-specific skills as well as language and interpersonal skills. Courses (type, number of weekly contact hours, language — if other than German) P (no information on SWS (weekly contact hours) and course language available) Method of assessment (type, scope, language — if other than German, examination offered — if not every seme- ster, information on whether module can be chosen to earn a bonus) a) log (approx. 20 pages) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examinati- on 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 Allocation of places 			graduate				
change programmes such as Erasmus etc. The contents of the course should correspond to the contents of a lab course offered in the context of the Master's programme in Biochemistry (120 ECTS credits); please consult with the competent coordinator in advance. Intended learning outcomes Students are familiar with procedures and processes used at universities in countries other than Germany. They have acquired subject-specific skills as well as language and interpersonal skills. Courses (type, number of weekly contact hours, language — if other than German) P (no information on SWS (weekly contact hours) and course language available) Method of assessment (type, scope, language — if other than German, examination offered — if not every seme- ster, information on whether module can be chosen to earn a bonus) a) log (approx. 20 pages) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examinati- on 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 Allocation of places 							
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have acquired subject-specific skills as well as language and interpersonal skills. Courses (type, number of weekly contact hours, language — if other than German) P (no information on SWS (weekly contact hours) and course language available) Method of assessment (type, scope, language — if other than German, examination offered — if not every seme- ster, information on whether module can be chosen to earn a bonus) a) log (approx. 20 pages) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examinatio- on 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 Allocation of places	Intende	ed lear	ning outcomes				
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Method of assessment (type, scope, language — if other than German, examination offered — if not every seme- ster, information on whether module can be chosen to earn a bonus) a) log (approx. 20 pages) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examinati- on 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 Allocation of places  Additional information Additional information on module duration: block lab course with a minimum duration of 15 weeks. Workload  Teaching cycle  Referred to in LPO I (examination regulations for teaching-degree programmes)  Module appears in	Course	<b>s</b> (type	, number of weekly conta	ct hours, language —	- if other than Germa	n)	
ster, information on whether module can be chosen to earn a bonus) 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 Allocation of places Additional information Additional information on module duration: block lab course with a minimum duration of 15 weeks. Workload Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in	P (no in	format	ion on SWS (weekly cont	act hours) and cours	e language available	e)	
on 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 Allocation of places  Additional information Additional information on module duration: block lab course with a minimum duration of 15 weeks. Workload  Teaching cycle  Referred to in LPO I (examination regulations for teaching-degree programmes)  Module appears in						tion offered — if not every seme-	
Additional information Additional information on module duration: block lab course with a minimum duration of 15 weeks. Workload Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in	on in gi 15 to 30	roups ( o minut	groups of 2: approx. 30 m res)	ninutes, groups of 3:			
Additional information on module duration: block lab course with a minimum duration of 15 weeks. Workload Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in							
Additional information on module duration: block lab course with a minimum duration of 15 weeks. Workload Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in							
Workload  Teaching cycle  Referred to in LPO I (examination regulations for teaching-degree programmes)  Module appears in	Additio	nal inf	ormation				
Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in	Additio	nal info	ormation on module dura	tion: block lab cours	e with a minimum dı	uration of 15 weeks.	
 Referred to in LPO I (examination regulations for teaching-degree programmes)  Module appears in	Workload						
 Referred to in LPO I (examination regulations for teaching-degree programmes)  Module appears in							
Module appears in	Teaching cycle						
Module appears in							
	Referre	<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)					
		-					
Master's degree (1 major) Biochemistry (2012)	Module	Module appears in					
	Master	's degr	ee (1 major) Biochemistry	r (2012)			
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Module title					Abbreviation	
Practical course - abroad 2					08-MBC-AP2-122-m01	
Module	e coord	inator		Module offered by		
chairpe mistry)		f examination committee	Biochemie (Bioche-	Chair of Biochemist	ry	
ECTS		od of grading	Only after succ. con	pl. of module(s)		
15	(not) s	successfully completed				
Duratio		Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
change course	e progra offerec	ammes such as Erasmus (	etc. The contents of t ster's programme in	he course should co	this course in the context of ex- rrespond to the contents of a lab CTS credits); please consult with	
Intende	ed lear	ning outcomes				
		amiliar with procedures a subject-specific skills as			ntries other than Germany. They s.	
Course	<b>s</b> (type	, number of weekly conta	ct hours, language –	· if other than Germa	n)	
P (no ir	nformat	ion on SWS (weekly cont	act hours) and cours	e language available	)	
		<b>sessment</b> (type, scope, la on on whether module ca			tion offered — if not every seme-	
on in g 15 to 30	roups ( o minut	groups of 2: approx. 30 n	ninutes, groups of 3:		20 minutes) or c) oral examinati- or d) presentation/talk (approx.	
Allocat	ion of p	olaces				
Additio	onal inf	ormation				
Additio	nal info	ormation on module dura	tion: block lab cours	e with a minimum dı	uration of 8 weeks.	
Workload						
Teaching cycle						
Referre	<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)					
Module	Module appears in					
Master	's degr	ee (1 major) Biochemistry	r (2012)			

ster, information on whether module can be chosen to ear preparing and supervising student lab courses: assessmen sessment to be specified at the beginning of the course) Language of assessment: German or English Allocation of places	mpl. of module(s) s nts in earlier stages of their degrees through a prac- iments, perform those experiments in a responsible ir degrees through practical experiments and have — if other than German) se language available) han German, examination offered — if not every seme-							
chairperson of examination committee Biochemie (Biochemistry)         ECTS       Method of grading       Only after succ. co         5       (not) successfully completed          Duration       Module level       Other prerequisite         1 semester       graduate          Contents          This module gives students the opportunity to guide stude       tide students in earlier stages of the lab.         Intended learning outcomes          Students are able to guide students in earlier stages of the learned how to instruct others in the lab.          Courses (type, number of weekly contact hours, language          Ü (no information on SWS (weekly contact hours) and cour       Method of assessment (type, scope, language         Wethod of assessment (type, scope, language	Chair of Biochemistry mpl. of module(s) s nts in earlier stages of their degrees through a prac- iments, perform those experiments in a responsible ir degrees through practical experiments and have — if other than German) se language available) nan German, examination offered — if not every seme-							
Method of grading       Only after succ. co         5       (not) successfully completed          Duration       Module level       Other prerequisite         1 semester       graduate          Contents          This module gives students the opportunity to guide stude       tide stude         tical experiment and learn how to organise scientific experimanner and instruct others in the lab.       Intended learning outcomes         Students are able to guide students in earlier stages of the learned how to instruct others in the lab.       Courses (type, number of weekly contact hours, language - U (no information on SWS (weekly contact hours) and cour         Method of assessment (type, scope, language — if other the ster, information on whether module can be chosen to ear         preparing and supervising student lab courses: assessment sessment to be specified at the beginning of the course)         Language of assessment: German or English         Allocation of places	mpl. of module(s) s nts in earlier stages of their degrees through a prac- iments, perform those experiments in a responsible ir degrees through practical experiments and have — if other than German) se language available) han German, examination offered — if not every seme-							
5       (not) successfully completed          Duration       Module level       Other prerequisite         1 semester       graduate          Contents          This module gives students the opportunity to guide stude       tical experiment and learn how to organise scientific exper         manner and instruct others in the lab.          Intended learning outcomes          Students are able to guide students in earlier stages of the learned how to instruct others in the lab.          Courses (type, number of weekly contact hours, language          Ü (no information on SWS (weekly contact hours) and cour       Method of assessment (type, scope, language         Bethod of assessment (type, scope, language          U (no information on whether module can be chosen to ear          preparing and supervising student lab courses: assessment	s nts in earlier stages of their degrees through a prac- iments, perform those experiments in a responsible ir degrees through practical experiments and have — if other than German) se language available) nan German, examination offered — if not every seme-							
Duration       Module level       Other prerequisite         1 semester       graduate          Contents          This module gives students the opportunity to guide stude       tical experiment and learn how to organise scientific exper         manner and instruct others in the lab.          Intended learning outcomes          Students are able to guide students in earlier stages of the learned how to instruct others in the lab.          Courses (type, number of weekly contact hours, language          Ü (no information on SWS (weekly contact hours) and cour       Method of assessment (type, scope, language         Biter, information on whether module can be chosen to ear          preparing and supervising student lab courses: assessment sessment to be specified at the beginning of the course)          Language of assessment: German or English	nts in earlier stages of their degrees through a prac- iments, perform those experiments in a responsible ir degrees through practical experiments and have — if other than German) se language available) nan German, examination offered — if not every seme-							
1 semester       graduate          Contents	nts in earlier stages of their degrees through a prac- iments, perform those experiments in a responsible ir degrees through practical experiments and have — if other than German) se language available) nan German, examination offered — if not every seme-							
Contents This module gives students the opportunity to guide stude tical experiment and learn how to organise scientific exper manner and instruct others in the lab. Intended learning outcomes Students are able to guide students in earlier stages of the learned how to instruct others in the lab. Courses (type, number of weekly contact hours, language - Ü (no information on SWS (weekly contact hours) and cour Method of assessment (type, scope, language — if other the ster, information on whether module can be chosen to earlier preparing and supervising student lab courses: assessment sessment to be specified at the beginning of the course) Language of assessment: German or English Allocation of places	iments, perform those experiments in a responsible ir degrees through practical experiments and have — if other than German) se language available) nan German, examination offered — if not every seme-							
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learned how to instruct others in the lab. <b>Courses</b> (type, number of weekly contact hours, language Ü (no information on SWS (weekly contact hours) and cour <b>Method of assessment</b> (type, scope, language — if other the ster, information on whether module can be chosen to ear preparing and supervising student lab courses: assessment sessment to be specified at the beginning of the course) Language of assessment: German or English <b>Allocation of places</b>	— if other than German) se language available) nan German, examination offered — if not every seme-							
Ü (no information on SWS (weekly contact hours) and cour <b>Method of assessment</b> (type, scope, language — if other the ster, information on whether module can be chosen to ear preparing and supervising student lab courses: assessment sessment to be specified at the beginning of the course) Language of assessment: German or English <b>Allocation of places</b>	se language available) 1an German, examination offered — if not every seme-							
Method of assessment (type, scope, language — if other the ster, information on whether module can be chosen to earn preparing and supervising student lab courses: assessment sessment to be specified at the beginning of the course) Language of assessment: German or English Allocation of places	nan German, examination offered — if not every seme-							
ster, information on whether module can be chosen to ear preparing and supervising student lab courses: assessmen sessment to be specified at the beginning of the course) Language of assessment: German or English Allocation of places								
sessment to be specified at the beginning of the course) Language of assessment: German or English Allocation of places	<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every seme- ster, information on whether module can be chosen to earn a bonus)							
Allocation of places	preparing and supervising student lab courses: assessment to be successfully completed (type and length of as- sessment to be specified at the beginning of the course)							
Additional information								
Workload								
Teaching cycle								
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)								
Module appears in								
Master's degree (1 major) Biochemistry (2012)								

Module title					Abbreviation		
Assistance in practical courses 2					08-MBC-AWA2-122-m01		
Module coordinator				Module offered by			
chairperson of examination committee Biochemie (Bioche- Chair of Biochemistry mistry)							
ECTS		od of grading	Only after succ. compl. of module(s)				
5	(not)	successfully completed					
Duration		Module level	Other prerequisites				
1 semester		graduate					
Contents							
This module gives students the opportunity to guide students in earlier stages of their degrees through a prac- tical experiment and learn how to organise scientific experiments, perform those experiments in a responsible manner and instruct others in the lab.							
Intend	ed lear	ning outcomes					
Students are able to guide students in earlier stages of their degrees through practical experiments and have learned how to instruct others in the lab.							
<b>Courses</b> (type, number of weekly contact hours, language — if other than German)							
Ü (no information on SWS (weekly contact hours) and course language available)							
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every seme- ster, information on whether module can be chosen to earn a bonus)							
preparing and supervising student lab courses: assessment to be successfully completed (type and length of as- sessment to be specified at the beginning of the course) Language of assessment: German or English							
Allocation of places							
Additional information							
Workload							
Teaching cycle							
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)							
Module appears in							
Master's degree (1 major) Biochemistry (2012)							
	5	. ,					

Module title					Abbreviation	
Practic	al cour	se - external 1			08-MBC-EP1-122-m01	
Module	e coord	inator		Module offered by		
chairpe mistry)		f examination committee	Biochemie (Bioche-	Chair of Biochemist	ry	
ECTS		od of grading	Only after succ. com	pl. of module(s)		
15	(not) s	successfully completed				
Duratio	on	Module level	Other prerequisites			
1 seme	ester	graduate				
Conten	nts					
be dete course	ermined offered	d by the host institution.	The contents of the p chelor's programme i	lacement should cor	ion or a business. Contents to respond to the contents of a lab ECTS credits); please consult	
Intend	ed lear	ning outcomes				
		e become familiar with th ualify them to work in the		niversity research in	stitutions and have developed	
Course	<b>s</b> (type	, number of weekly conta	ct hours, language —	if other than Germa	n)	
P (no ir	nformat	ion on SWS (weekly cont	act hours) and cours	e language available	)	
		<b>sessment</b> (type, scope, la on on whether module ca			tion offered — if not every seme-	
on in g 15 to 30	roups ( o minut	groups of 2: approx. 30 n	ninutes, groups of 3:		20 minutes) or c) oral examinati- or d) presentation/talk (approx.	
	tion of p	-				
Additio	onal inf	ormation				
Additic	onal inf	ormation on module dura	tion: block lab cours	e with a minimum dı	uration of 8 weeks.	
Worklo	ad					
Teaching cycle						
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)						
Module appears in						
Master's degree (1 major) Biochemistry (2012)						

Module title				Abbreviation		
Practical course - external 2					08-MBC-EP2-122-m01	
Module	e coord	inator		Module offered by		
chairpe mistry)		f examination committee	Biochemie (Bioche-	Chair of Biochemist	ry	
ECTS		od of grading	Only after succ. con	npl. of module(s)		
15	(not) s	successfully completed				
Duratio		Module level	Other prerequisites			
1 seme		graduate				
Conten	Its					
be dete course	ermined offered	d by the host institution.	The contents of the p chelor's programme i	lacement should cor	ion or a business. Contents to respond to the contents of a lab ECTS credits); please consult	
Intend	ed lear	ning outcomes				
		e become familiar with th ualify them to work in the		niversity research in	stitutions and have developed	
Course	<b>s</b> (type	, number of weekly conta	ct hours, language –	- if other than Germa	n)	
P (no ir	nformat	tion on SWS (weekly cont	act hours) and cours	e language available	2)	
		s <b>essment</b> (type, scope, la ion on whether module ca			tion offered — if not every seme-	
on in g 15 to 30	roups ( o minut	groups of 2: approx. 30 n	ninutes, groups of 3:		20 minutes) or c) oral examinati- or d) presentation/talk (approx.	
Allocat						
Additio	onal inf	ormation				
Additio	onal inf	ormation on module dura	tion: block lab cours	e with a minimum dı	uration of 8 weeks.	
Worklo	ad					
Teachi	ng cycl	e				
-						
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)						
			·			
Module appears in						
Master's degree (1 major) Biochemistry (2012)						

Module title					Abbreviation	
Genom	Genome and epigenetics 08-MBC-GEG-122-m01					
Module	e coord	inator		Module offered by		
holder	of the (	Chair of Biochemistry		Chair of Biochemist	ry	
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)		
10	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
		actical experiments, stud on of epigenetic modific			nethods and lab techniques for lity.	
Intende	ed lear	ning outcomes				
		ter the techniques used i its they have performed a			xplain and critically reflect upon dings in a written report.	
Course	<b>s</b> (type	, number of weekly conta	ct hours, language —	if other than Germa	n)	
Ü + S (r	no infor	mation on SWS (weekly o	contact hours) and co	ourse language avail	able)	
		essment (type, scope, la on on whether module ca			tion offered — if not every seme-	
on in gi 15 to 30 Assess	roups ( o minut ment o	groups of 2: approx. 30 n	ninutes, groups of 3:		20 minutes) or c) oral examinati- or d) presentation/talk (approx.	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
Teaching cycle						
Referre	d to in	LPOI (examination regu	lations for teaching-o	legree programmes)		
			0			
Module appears in						
Master	's degr	ee (1 major) Biochemistry	r (2012)			

Module title				Abbreviation			
Genome stability					08-MBC-GST-122-m01		
Module	coord	inator		Module offered by			
holder	of the C	Chair of Biochemistry		Chair of Biochemist	try		
ECTS		od of grading	Only after succ. com	pl. of module(s)			
5	nume	rical grade					
Duratio	n	Module level	Other prerequisites				
1 seme	ster	graduate					
Conten	ts						
		omprises a lecture and a ch on the stability of gen			pth exploration of the current l and epigenetic factors.		
Intende	ed learr	ning outcomes					
learned	l to nev		e to situate new resea		able to transfer what they have the context of existing knowledge		
Course	<b>s</b> (type,	, number of weekly conta	ct hours, language —	if other than Germa	n)		
S + S (n	io infor	mation on SWS (weekly o	contact hours) and co	urse language availa	able)		
		essment (type, scope, la on on whether module ca			tion offered — if not every seme-		
nutes e of one o approx.	ach; 3 candida . 30 mi	written examinations: ap	prox. 40 minutes eac utes) or d) oral exami x. 40 minutes) or e) p	h) or b) log (approx. ination in groups of t	ten examinations: approx. 45 mi- 20 pages) or c) oral examination up to 3 candidates (groups of 2: pprox. 15 to 30 minutes)		
Allocat	ion of p	olaces					
Additio	nal info	ormation					
Worklo	ad						
Teaching cycle							
Referre	<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)						
Module	Module appears in						
Master'	s degre	ee (1 major) Biochemistry	r (2012)				

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Module title			Abbreviation			
Life cycle of proteins				08-MBC-LCP-122-m01		
Module	coord	inator		Module offered by		
holder	of the C	Chair of Biochemistry		Chair of Biochemist	try	
ECTS		od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio		Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
		omprises a lecture and a ch on the regulation and			pth exploration of the current	
Intende	ed learn	ning outcomes				
learned	l to nev		e to situate new resea		able to transfer what they have the context of existing knowledge	
Courses	<b>s</b> (type,	, number of weekly conta	ct hours, language —	if other than Germa	n)	
S + S (n	io infor	mation on SWS (weekly o	contact hours) and co	urse language avail	able)	
		e <b>ssment</b> (type, scope, la on on whether module ca			tion offered — if not every seme-	
nutes e of one o approx.	ach; 3 candida . 30 mir	written examinations: ap	prox. 40 minutes eac utes) or d) oral exami x. 40 minutes) or e) p	h) or b) log (approx. ination in groups of t	ten examinations: approx. 45 mi- 20 pages) or c) oral examination up to 3 candidates (groups of 2: pprox. 15 to 30 minutes)	
Allocat	ion of p	olaces				
Additio	nal info	ormation				
Worklo	ad					
Teachir	Teaching cycle					
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)						
Module	Module appears in					
		ee (1 major) Biochemistry	(2012)			

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Module title					Abbreviation	
Literatu	ure sen	ninar 1			08-MBC-LIT1-122-m01	
Module	e coord	inator		Module offered by		
chairpe mistry)	erson of	f examination committee	Biochemie (Bioche-	Chair of Biochemist	ry	
ECTS		od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
					ed with lecturer). Those presenta- al discussions of those publicati-	
Intende	ed learı	ning outcomes				
publica	tions t		ty. They have practise	ed engaging critically	deliver presentations of those with scientific literature and si- levant field.	
Course	<b>s</b> (type	, number of weekly conta	ct hours, language —	if other than Germa	n)	
S (no ir	format	ion on SWS (weekly cont	act hours) and cours	e language available	2)	
		s <b>essment</b> (type, scope, la on on whether module ca			tion offered — if not every seme-	
		talk (approx. 15 to 30 mir ssessment: German or Ei				
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
Teaching cycle						
Referre	d to in	LPO I (examination regu	lations for teaching-c	legree programmes)		
Module	Module appears in					
Master's degree (1 major) Biochemistry (2012)						

Module title					Abbreviation	
Literature seminar 2					08-MBC-LIT2-122-m01	
Module	e coord	inator		Module offered by		
chairpe mistry)	erson of	f examination committee	Biochemie (Bioche-	Chair of Biochemist	ry	
ECTS		od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
					d with lecturer). Those presenta- al discussions of those publicati-	
Intende	ed leari	ning outcomes				
publica	tions t		ty. They have practise	ed engaging critically	deliver presentations of those with scientific literature and si- levant field.	
Course	<b>s</b> (type	, number of weekly conta	ct hours, language —	· if other than Germa	n)	
S (no ir	format	ion on SWS (weekly cont	act hours) and cours	e language available	2)	
		e <b>ssment</b> (type, scope, la on on whether module ca			tion offered — if not every seme-	
		talk (approx. 15 to 30 mir ssessment: German or El				
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	ad					
Teaching cycle						
Referre	<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)					
Module	Module appears in					
Master	Master's degree (1 major) Biochemistry (2012)					

					Abbreviation		
Practical lab course 1					08-MBC-LP1-122-m01		
Module	e coord	inator		Module offered by			
chairpe mistry)		f examination committee	Biochemie (Bioche-	Chair of Biochemist	ry		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)			
15	(not) s	successfully completed					
Duratio	on	Module level	Other prerequisites				
1 seme	ster	graduate					
Conten	Its						
burg. P ves stu	Please c Idents t	onsult with the competer	nt coordinator in adva y engage with metho	ance regarding conte ds in biochemistry, n	oup at the University of Würz- ents to be covered. The course gi- nolecular biology and/or bioin- eriments and findings.		
Intend	ed lear	ning outcomes					
ty to ap	oply the earned l	se methods to new prob	lems and to determin	e whether they are s	s. They have developed the abili- uitable for those problems. They gs according to best scientific		
Course	<b>s</b> (type	, number of weekly conta	ct hours, language —	if other than Germa	n)		
P (no ir	nformat	ion on SWS (weekly cont	act hours) and cours	e language available	)		
		<b>sessment</b> (type, scope, la on on whether module ca			tion offered — if not every seme-		
on in g 15 to 30	roups ( o minut	groups of 2: approx. 30 n	ninutes, groups of 3:		20 minutes) or c) oral examinati- or d) presentation/talk (approx.		
Allocat			5				
Additio	onal inf	ormation					
	-	ormation on module dura	tion: block lab cours	e with a minimum du	uration of 8 weeks.		
Worklo	-						
Teaching cycle							
Referre	ed to in	LPOI (examination regu	lations for teaching-c	legree programmes)			
Module	Module appears in						
		ee (1 major) Biochemistry	(2012)				

Ν	laster	S	with	1	majo	r E	Bioc	hem	istry	(2012)	)

Module		Abbreviation					
Practica	l lab course 2			08-MBC-LP2-122-m01			
Module	coordinator		Module offered by				
chairper mistry)	son of examination committee	Biochemie (Bioche-	Chair of Biochemist	ry			
ECTS	Method of grading	Only after succ. com	pl. of module(s)				
15	(not) successfully completed						
Duratior		Other prerequisites					
1 semes	ter graduate						
Content	5						
burg. Ple ves stud		nt coordinator in adva y engage with metho	ance regarding conte ds in biochemistry, n	nts to be covered. The course gi- nolecular biology and/or bioin-			
Intende	d learning outcomes						
ty to app	oly those methods to new prob Irned how to document and dis	lems and to determin	e whether they are s	s. They have developed the abili- uitable for those problems. They gs according to best scientific			
Courses	(type, number of weekly conta	ct hours, language —	if other than Germa	n)			
P (no inf	formation on SWS (weekly cont	act hours) and cours	e language available	)			
	<b>of assessment</b> (type, scope, la prmation on whether module ca			tion offered — if not every seme-			
on in gro 15 to 30		ninutes, groups of 3:		20 minutes) or c) oral examinati- or d) presentation/talk (approx.			
Allocatio	on of places						
Addition	nal information						
Addition	al information on module dura	tion: block lab cours	e with a minimum dı	uration of 8 weeks.			
Workloa	d						
Teaching cycle							
-							
Referred	to in LPO I (examination regu	lations for teaching-o	legree programmes)				
Module	appears in						
Master's	Master's degree (1 major) Biochemistry (2012)						

Master's with 1 major Biochemistry (2012)	JMU Würzburg • generated 26-Aug-2024 • exam.
	reg. data record Master (120 ECTS) Biochemie - 2012

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Module title			Abbreviation			
Practical lab course 3				08-MBC-LP3-122-m01		
Module co	ordinator		Module offered by			
chairpersc mistry)	on of examination committee	Biochemie (Bioche-	Chair of Biochemist	ry		
	ethod of grading	Only after succ. com	pl. of module(s)			
10 (n	ot) successfully completed					
Duration	Module level	Other prerequisites				
1 semeste	r graduate					
Contents						
burg. Plea: ves studer	se consult with the competer	nt coordinator in adva / engage with metho	ance regarding conte ds in biochemistry, n	oup at the University of Würz- ents to be covered. The course gi- nolecular biology and/or bioin- eriments and findings.		
Intended l	earning outcomes					
ty to apply	those methods to new probl	ems and to determin	e whether they are s	s. They have developed the abili- uitable for those problems. They gs according to best scientific		
Courses (t	ype, number of weekly conta	ct hours, language —	· if other than Germa	n)		
P (no infor	mation on SWS (weekly cont	act hours) and cours	e language available	)		
	assessment (type, scope, la nation on whether module ca			tion offered — if not every seme-		
on in grou 15 to 30 m	ps (groups of 2: approx. 30 m	ninutes, groups of 3:		20 minutes) or c) oral examinati- or d) presentation/talk (approx.		
Allocation		0.4				
Additional	information					
Additional	information on module dura	tion: block lab cours	e with a minimum dı	uration of 6 weeks.		
Workload						
Teaching cycle						
Referred to	o in LPO I (examination regu	lations for teaching-c	legree programmes)			
Module ap	Module appears in					
Master's degree (1 major) Biochemistry (2012)						

Module title			Abbreviation				
Practical lab course 4					08-MBC-LP4-122-m01		
Module	e coord	inator		Module offered by			
chairpe mistry)		f examination committee	Biochemie (Bioche-	Chair of Biochemist	ry		
ECTS		od of grading	Only after succ. com	pl. of module(s)			
10	(not) s	successfully completed					
Duratio	_	Module level	Other prerequisites				
1 seme	ester	graduate					
Conten	its						
burg. P ves stu	Please c Idents t	onsult with the competer	nt coordinator in adva y engage with metho	ance regarding conte ds in biochemistry, n	oup at the University of Würz- ents to be covered. The course gi- nolecular biology and/or bioin- eriments and findings.		
Intend	ed lear	ning outcomes					
ty to ap	oply the earned l	se methods to new prob	lems and to determin	e whether they are s	s. They have developed the abili- uitable for those problems. They gs according to best scientific		
Course	<b>s</b> (type	, number of weekly conta	ct hours, language —	· if other than Germa	n)		
P (no ir	nformat	ion on SWS (weekly cont	act hours) and cours	e language available	)		
		<b>sessment</b> (type, scope, la on on whether module ca			tion offered — if not every seme-		
on in g 15 to 3	roups ( o minut	groups of 2: approx. 30 n	ninutes, groups of 3:		20 minutes) or c) oral examinati- or d) presentation/talk (approx.		
	tion of p		5				
Additio	onal inf	ormation					
Additic	onal info	ormation on module dura	tion: block lab cours	e with a minimum dı	uration of 6 weeks.		
Worklo	ad						
Teaching cycle							
Referre	ed to in	LPOI (examination regu	lations for teaching-o	legree programmes)			
Module	e appea	ars in					
Master	Master's degree (1 major) Biochemistry (2012)						

Module title			Abbreviation			
Practical lab course 5					08-MBC-LP5-122-m01	
Module	e coord	inator		Module offered by		
chairpe mistry)		f examination committee	Biochemie (Bioche-	Chair of Biochemist	ry	
ECTS		od of grading	Only after succ. com	pl. of module(s)		
5	(not) s	successfully completed				
Duratio		Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
burg. P ves stu	lease c dents t	onsult with the competer	nt coordinator in adva y engage with metho	ance regarding conte ds in biochemistry, n	oup at the University of Würz- ents to be covered. The course gi- nolecular biology and/or bioin- eriments and findings.	
Intende	ed learı	ning outcomes				
ty to ap	oply the arned l	se methods to new prob	lems and to determin	e whether they are s	s. They have developed the abili- uitable for those problems. They gs according to best scientific	
Course	<b>s</b> (type	, number of weekly conta	ct hours, language —	· if other than Germa	n)	
P (no ir	nformat	ion on SWS (weekly cont	act hours) and cours	e language available	)	
		<b>sessment</b> (type, scope, la on on whether module ca			tion offered — if not every seme-	
on in gi 15 to 30	roups ( o minut	groups of 2: approx. 30 n	ninutes, groups of 3:		20 minutes) or c) oral examinati- or d) presentation/talk (approx.	
Allocat		-	5			
Additio	onal info	ormation				
Additio	nal info	ormation on module dura	tion: block lab cours	e with a minimum dı	uration of 3 weeks.	
Worklo	ad					
Teaching cycle						
Referre	ed to in	LPOI (examination regu	lations for teaching-o	legree programmes)		
Module	e appea	nrs in				
Master	Master's degree (1 major) Biochemistry (2012)					

Module title			Abbreviation				
Practical lab course 6					08-MBC-LP6-122-m01		
Module	e coord	inator		Module offered by			
chairpe mistry)		f examination committee	Biochemie (Bioche-	Chair of Biochemist	ry		
ECTS		od of grading	Only after succ. com	pl. of module(s)			
5	(not) s	successfully completed					
Duratio		Module level	Other prerequisites				
1 seme	ster	graduate					
Conten	ts						
burg. P ves stu	lease c dents t	onsult with the competer	nt coordinator in adva y engage with metho	ance regarding conte ds in biochemistry, n	oup at the University of Würz- ents to be covered. The course gi- nolecular biology and/or bioin- eriments and findings.		
Intende	ed learı	ning outcomes					
ty to ap	oply the arned l	se methods to new probl	lems and to determin	e whether they are s	s. They have developed the abili- uitable for those problems. They gs according to best scientific		
Course	<b>s</b> (type	, number of weekly conta	ct hours, language —	· if other than Germa	n)		
P (no ir	nformat	ion on SWS (weekly cont	act hours) and cours	e language available	)		
		<b>essment</b> (type, scope, la on on whether module ca			tion offered — if not every seme-		
on in gi 15 to 30	roups ( o minut	groups of 2: approx. 30 m	ninutes, groups of 3:		20 minutes) or c) oral examinati- or d) presentation/talk (approx.		
Allocat							
Additio	onal info	ormation					
Additio	nal info	ormation on module dura	tion: block lab cours	e with a minimum dı	uration of 3 weeks.		
Worklo	ad						
Teaching cycle							
Referre	ed to in	LPO I (examination regu	lations for teaching-c	legree programmes)			
Module	e appea	ars in					
Master	Master's degree (1 major) Biochemistry (2012)						

Module title				Abbreviation		
Final Examination in Biochemistry					08-MBC-MA-122-m01	
Module coordinator Module offered by				Module offered by		
chairpe mistry)	rson of	f examination committee	Biochemie (Bioche-	Chair of Biochemist	try	
ECTS	Metho	od of grading	Only after succ. con	pl. of module(s)		
30	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
and usi	ng the				problem within a given time frame lents will also be required to go	
Intende	ed learr	ning outcomes				
practice defend	e, and t their c	to write up the results of	their work. They are a	ble to present the fi	the principles of good scientific ndings of their projects. They can ation and interpretation of those	
Course	<b>s</b> (type,	, number of weekly conta	ct hours, language –	· if other than Germa	n)	
• 0 • 0	8-MBC 8-MBC	as 2 components; inform -MA-2-122: K (no informa -MA-1-122: A (no informa	tion on language and tion on language and	l number of weekly o I number of weekly o	contact hours available) ontact hours available)	
		s <b>essment</b> (type, scope, la on on whether module ca			tion offered — if not every seme-	
		as the following 2 assess nent components to pass	•		ise, students must pass all of	
• 5 • A • Li Assess • 2 • w	ECTS c bschlu anguag <b>ment c</b> 5 ECTS vritten t	omponent to module con redits, method of gradin sskolloquium (approx. 4 ge of assessment: Germa omponent to module con credits, method of gradi chesis (approx. 60 pages) ge of assessment: Germa	g: numerical grade 5 minutes) n or English n <b>ponent o8-MBC-MA</b> ng: numerical grade			
Allocat	ion of p	olaces				
Additio	nal info	ormation				
Worklo	ad					
Teaching cycle						
Referre	<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)					
Module	appea	irs in				
		ee (1 major) Biochemistry	(2012)			

Module title			Abbreviation		
Macromolecular Crystallography				08-MBC-MK-122-m01	
Module	e coord	inator		Module offered by	
holder	of the C	Chair of Biochemistry		Chair of Biochemist	try
ECTS		od of grading	Only after succ. com	pl. of module(s)	
10	· · · · · ·	rical grade			
Duratio		Module level	Other prerequisites		
1 seme		graduate			
Conten					
constru	icts for		s students the fundar	nental principles an	and the expression of protein d techniques of crystallisation
Intende	ed learr	ning outcomes			
They ha	ave lear		dations of, as well as	key skills and techn	constructs for crystallisation. iiques for, protein crystallisation uss the results obtained.
Course	<b>s</b> (type,	, number of weekly conta	ct hours, language —	· if other than Germa	n)
V + Ü +	P (no i	nformation on SWS (wee	kly contact hours) and	d course language a	vailable)
		e <b>ssment</b> (type, scope, la on on whether module ca			tion offered — if not every seme-
nutes e of one o approx. Assess	ach; 3 candida . 30 mii ment o	written examinations: ap	prox. 40 minutes eac utes) or d) oral exami x. 40 minutes) or e) p	h) or b) log (approx. ination in groups of t	ten examinations: approx. 45 mi- 20 pages) or c) oral examination up to 3 candidates (groups of 2: oprox. 15 to 30 minutes)
Allocat	ion of p	olaces			
Additio	nal inf	ormation			
Worklo	ad				
Teaching cycle					
Referre	d to in	LPO I (examination regu	lations for teaching-c	legree programmes)	
Module	Module appears in				
Master	's degre	ee (1 major) Biochemistry	r (2012)		
-					

Mass-Spectrometry and Proteomics       o8-MBC-MSP-142-mo1         Module coordinator       Module offered by         Chair of Biochemistry       Chair of Biochemistry         ECTS       Method of grading       Only after succ. compl. of module(s)         5       numerical grade       -         Duration       Module tevel       Other prerequisites         1 semester       graduate       -         Contents       -       -         This module comprises a lecture, a seminar and a lab course. The lecture will discuss the theoretical principles of, and essential methods for, the mass spectrometry of biomolecules. In the seminar, students will become familiar with different software packages and the fundamental principles of the analysis of mass spectrometry data. The lab course will give students the opportunity to independently apply to practical experiments what they have learned the theoretical foundations of mass spectrometry protein and proteomic analysis and are able to work with software tools for the analysis of mass spectrometry protein analysis - and have gained an insight into how to operate a nanoHPLC-coupled mass spectrometry protein analysis - and have gained an insight into how to operate a nanoHPLC-coupled mass spectrometry.         Courses (type, number of weekly contact hours, language — if other than German)       V + 5 + 0 (no information on SWS (weekly contact hours) and course language available)         Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to eam a bonus)       <	Module title			Abbreviation			
holder of the Chair of Biochemistry       Chair of Biochemistry         ECTS       Method of grading       Only after succ. compl. of module(s)         5       numerical grade          1 semester       graduate          Contents         This module comprises a lecture, a seminar and a lab course. The lecture will discuss the theoretical principles of its analysis of mass spectrometry of biomolecules. In the seminar, students will become fa-         millar with different software packages and the fundamental principles of the analysis of mass spectrometry data. The lab course will give students the opportunity to independently apply to practical experiments what they have learned in theory.         Intended learning outcomes         Students have learned the theoretical foundations of mass spectrometry protein and proteomic analysis and are able to work with software tools for the analysis of mass spectrometry protein analysis - and have gained an insight into how to operate a nanoHPLC-coupled mass spectrometry protein analysis - and have gained an insight into how to operate a nanoHPLC-coupled mass spectrometry protein analysis - and have gained an insight into how to operate a nanoHPLC-coupled mass spectrometry protein analysis of mass operator throus, language — if other than German)         V + S (no information on SWS (weekly contact hours) and course language available)         Method of assessment (type, scope, language — if other than German)       V + S + 0 (no information (approx. 6 o minutes) or Biochemie (Biochemistry): b) log (approx. 2 o gapes) or c) oral ex-	Mass-Spectrometry and Proteomics			o8-MBC-MSP-142-mo1			
ECTS       Method of grading       Only after succ. compl. of module(s)         5       numerical grade          Duration       Module level       Other prerequisites         1 semester       graduate          Contents         This module comprises a lecture, a seminar and a lab course. The lecture will discuss the theoretical principles of the analysis of mass spectrometry of biomolecules. In the seminar, students will become familiar with different software packages and the fundamental principles of the analysis of mass spectrometry data. The lab course will give students the opportunity to independently apply to practical experiments what they have learned in theory.         Intended learning outcomes       Students have learned the theoretical foundations of mass spectrometry protein and proteomic analysis and are able to work with software tools for the analysis of mass spectrometry protein analysis - and have gained an insight into how to operate a nanOHPLC-coupled mass spectrometry.         Curses (type, number of weekly contact hours, language — if other than German)         V + S + P (no information on SWS (weekly contact hours) and course language available)         Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)         a) written examination (approx. 60 minutes) or Biochemic (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,	Module	coord	inator		Module offered by		
5     numerical grade        Duration     Module level     Other prerequisites       1 semester     graduate        Contents         This module comprises a lecture, a seminar and a lab course. The lecture will discuss the theoretical principles of, and essential methods for, the mass spectrometry of biomolecules. In the seminar, students will become familiar with different software packages and the fundamental principles of the analysis of mass spectrometry data. The lab course will give students the opportunity to independently apply to practical experiments what they have learned in theory.       Intended learning outcomes     Students have learned the theoretical foundations of mass spectrometry data. They have learned the steps involved in the procedure - from sample preparation through to mass spectrometry protein analysis - and have gained an insight into how to operate a nanoHPLC-coupled mass spectrometer.       Courses (type, number of weekly contact hours) and course language available)       Method of assessment (type, scope, language – if other than German)       V + S + P (no information on SWS (weekly contact hours) and course language available)       Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information (approx. 6o minutes) or Biochemistry): b) log (approx. 2o pages) or c) oral examination on eacadidate each (approx. 2o minutes) or d) are examination in groups (groups of 2: approx. 30 minutes) or e) presentation/talk (approx. 15 to 30 minutes)       al written examination (approx. 6o minutes) or e) presentation/talk (approx. 15 to 30 minutes)       al aditionremation<	holder	of the Q	Chair of Biochemistry		Chair of Biochemist	ry	
Duration         Module level         Other prerequisites           1 semester         graduate            Contents            This module comprises a lecture, a seminar and a lab course. The lecture will discuss the theoretical principles of , and essential methods for, the mass spectrometry of biomolecules. In the seminar, students will become familiar with different software packages and the fundamental principles of the analysis of mass spectrometry data. The lab course will give students the opportunity to independently apply to practical experiments what they have learned in theory.           Intended learning outcomes            Students have learned the theoretical foundations of mass spectrometry data. They have learned the steps involved in the procedure - from sample preparation through to mass spectrometry protein and proteomic analysis and are able to work with software tools for the analysis of mass spectrometry.           Courses (type, number of weekly contact hours, language — if other than German)         V + S + P (no information on SWS (weekly contact hours) and course language available)           Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)         a) written examination (approx. 20 minutes) or e) presentation/talk (approx. 15 to 30 minutes)           Junguage of assessment: German, English         Allocation of places           Biochemistry Master's: 6 places. Places will be allocated by lot.         Additional information	ECTS			Only after succ. com	pl. of module(s)		
1 semester       graduate          Contents          This module comprises a lecture, a seminar and a lab course. The lecture will discuss the theoretical principles of an dessential methods for, the mass spectrometry of biomolecules. In the seminar, students will become fa- tillar with different software packages and the fundamental principles of the analysis of mass spectrometry data. The lab course will give students the opportunity to independently apply to practical experiments what they have learned in theory.         Intended learning outcomes          Students have learned the theoretical foundations of mass spectrometry data. They have learned the steps involved in the procedure - from sample preparation through to mass spectrometry protein analysis - and have gained an insight into how to operate a nanoHPLC-coupled mass spectrometer.         Courses (type, number of weekly contact hours, language — if other than German)         V + S + P (no information on SWS (weekly contact hours) and course language available)         Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)         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) or e) presentation/talk (approx. 15 to 30 minutes)         Aldication of places       Biochemistry Master's: 6 places. Places will be allocated by lot.         Additional information	5	nume	rical grade				
Contents         This module comprises a lecture, a seminar and a lab course. The lecture will discuss the theoretical principles of, and essential methods for, the mass spectrometry of biomolecules. In the seminar, students will become familiar with different software packages and the fundamental principles of the analysis of mass spectrometry data. The lab course will give students the opportunity to independently apply to practical experiments what they have learned in theory.         Intended learning outcomes       Students have learned the theoretical foundations of mass spectrometry data. They have learned the theoretical foundations of mass spectrometry data. They have learned the steps involved in the procedure - from sample preparation through to mass spectrometry protein analysis - and have gained an insight into how to operate a nanoHPLC-coupled mass spectrometer.         Courses (type, number of weekly contact hours, language — if other than German)         V + S + P (no information on SWS (weekly contact hours) and course language available)         Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module can be chosen to earn a bonus)         a) written examination (approx. 40 minutes) or e) presentation/talk (approx. 15 to 30 minutes)         a) written examination for paces         Motod of places         Biochemistry Master's: 6 places. Places will be allocated by lot.         Additional information         -         -         -         -         -         - <td></td> <td></td> <td></td> <td>Other prerequisites</td> <td></td> <td></td>				Other prerequisites			
This module comprises a lecture, a seminar and a lab course. The lecture will discuss the theoretical principles of, and essential methods for, the mass spectrometry of biomolecules. In the seminar, students will become fa- miliar with different software packages and the fundamental principles of the analysis of mass spectrometry da- ta. The lab course will give students the opportunity to independently apply to practical experiments what they have learned in theory. Intended learning outcomes Students have learned the theoretical foundations of mass spectrometry protein and proteomic analysis and are able to work with software tools for the analysis of mass spectrometry protein and proteomic analysis - and have gained an insight into how to operate a nanoHPLC-coupled mass spectrometry ontain analysis - and have gained an insight into how to operate a nanoHPLC-coupled mass spectrometry. Courses (type, number of weekly contact hours, language — if other than German) V + S + P (no information on SWS (weekly contact hours) and course language available) Method of assessment (type, scope, language — if other than German, examination offered — if not every seme- ster, information on whether module can be chosen to earn a bonus) a) written examination (approx. 60 minutes) or Biochemie (Biochemistry): b) log (approx. 20 pages) or c) oral ex- amination of one candidate each (approx. 20 minutes) or d) oral examination in groups (groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or e) presentation/talk (approx. 15 to 30 minutes) Language of assessment: German, English Allocation of places Biochemistry Master's: 6 places. Places will be allocated by lot. Additional information - - Teaching cycle - - Referred to in LPO 1 (examination regulations for teaching-degree programmes) - - Module appears in	1 semes	ster	graduate				
of, and essential methods for, the mass spectrometry of biomolecules. In the seminar, students will become fa- miliar with different software packages and the fundamental principles of the analysis of mass spectrometry da- ta. The lab course will give students the opportunity to independently apply to practical experiments what they have learned in theory. Intended learning outcomes Students have learned the theoretical foundations of mass spectrometry protein and proteomic analysis and are able to work with software tools for the analysis of mass spectrometry data. They have learned the steps invol- ved in the procedure - from sample preparation through to mass spectrometry protein analysis - and have gained an insight into how to operate a nanoHPLC-coupled mass spectrometry moterin analysis - and have gained an insight into how to operate a nanoHPLC-coupled mass spectrometry. Courses (type, number of weekly contact hours, language — if other than German) V + S + P (no information on SWS (weekly contact hours) and course language available) Method of assessment (type, scope, language — if other than German, examination offered — if not every seme- ster, information on whether module can be chosen to earn a bonus) a) written examination (approx. 60 minutes) or Biochemie (Biochemistry): b) log (approx. 20 pages) or c) oral ex- amination of one candidate each (approx. 20 minutes) or d) oral examination in groups (groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or e) presentation/talk (approx. 15 to 30 minutes) Language of assessment: German, English Allocation of places Biochemistry Master's: 6 places. Places will be allocated by lot. Additional information - - Teaching cycle  Referred to in LPO 1 (examination regulations for teaching-degree programmes)  Module appears in	Conten	ts					
Students have learned the theoretical foundations of mass spectrometry protein and proteomic analysis and are able to work with software tools for the analysis of mass spectrometry data. They have learned the steps invol- ved in the procedure - from sample preparation through to mass spectrometry protein analysis - and have gained an insight into how to operate a nanoHPLC-coupled mass spectrometer. <b>Courses</b> (type, number of weekly contact hours, language — if other than German) V + S + P (no information on SWS (weekly contact hours) and course language available) <b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every seme- ster, information on whether module can be chosen to earn a bonus) a) written examination (approx. 60 minutes) or Biochemie (Biochemistry): b) log (approx. 20 pages) or c) oral ex- amination of one candidate each (approx. 20 minutes) or d) oral examination in groups (groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or e) presentation/talk (approx. 15 to 30 minutes) Language of assessment: German, English <b>Allocation of places</b> Biochemistry Master's: 6 places. Places will be allocated by lot. <b>Additional information</b>  <b>Teaching cycle</b>  <b>Referred to in LPO 1</b> (examination regulations for teaching-degree programmes)  <b>Module appears in</b>	of, and miliar w ta. The	essent /ith difl lab coι	ial methods for, the mass ferent software packages urse will give students the	s spectrometry of bio and the fundamenta	molecules. In the se l principles of the ar	minar, students will become fa- nalysis of mass spectrometry da-	
able to work with software tools for the analysis of mass spectrometry data. They have learned the steps invol- ved in the procedure - from sample preparation through to mass spectrometry protein analysis - and have gained an insight into how to operate a nanoHPLC-coupled mass spectrometer. <b>Courses</b> (type, number of weekly contact hours, language — if other than German) V + S + P (no information on SWS (weekly contact hours) and course language available) <b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every seme- ster, information on whether module can be chosen to earn a bonus) a) written examination (approx. 60 minutes) or Biochemie (Biochemistry): b) log (approx. 20 pages) or c) oral ex- amination of one candidate each (approx. 20 minutes) or d) oral examination in groups (groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or e) presentation/talk (approx. 15 to 30 minutes) Language of assessment: German, English <b>Allocation of places</b> Biochemistry Master's: 6 places. Places will be allocated by lot. <b>Additional information</b>  <b>Workload</b>  <b>Teaching cycle</b>  <b>Referred to in LPO 1</b> (examination regulations for teaching-degree programmes)  <b>Module appears in</b>	Intende	ed learn	ning outcomes				
V + S + P (no information on SWS (weekly contact hours) and course language available) Method of assessment (type, scope, language — if other than German, examination offered — if not every seme- ster, information on whether module can be chosen to earn a bonus) a) written examination (approx. 60 minutes) or Biochemie (Biochemistry): b) log (approx. 20 pages) or c) oral ex- amination of one candidate each (approx. 20 minutes) or d) oral examination in groups (groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or e) presentation/talk (approx. 15 to 30 minutes) Language of assessment: German, English Allocation of places Biochemistry Master's: 6 places. Places will be allocated by lot. Additional information Workload Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in	able to ved in t	work w he pro	vith software tools for the cedure - from sample pre	analysis of mass spe paration through to n	ectrometry data. The nass spectrometry p	y have learned the steps invol-	
Method of assessment (type, scope, language — if other than German, examination offered — if not every seme- ster, information on whether module can be chosen to earn a bonus) a) written examination (approx. 60 minutes) or Biochemie (Biochemistry): b) log (approx. 20 pages) or c) oral ex- amination of one candidate each (approx. 20 minutes) or d) oral examination in groups (groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or e) presentation/talk (approx. 15 to 30 minutes) Language of assessment: German, English Allocation of places Biochemistry Master's: 6 places. Places will be allocated by lot. Additional information  Workload  Teaching cycle  Referred to in LPO I (examination regulations for teaching-degree programmes)  Module appears in	Courses	<b>s</b> (type,	, number of weekly conta	ct hours, language —	if other than Germa	n)	
ster, information on whether module can be chosen to earn a bonus) a) written examination (approx. 60 minutes) or Biochemie (Biochemistry): b) log (approx. 20 pages) or c) oral ex- amination of one candidate each (approx. 20 minutes) or d) oral examination in groups (groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or e) presentation/talk (approx. 15 to 30 minutes) Language of assessment: German, English Allocation of places Biochemistry Master's: 6 places. Places will be allocated by lot. Additional information Workload Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in	V + S +	P (no ii	nformation on SWS (weel	kly contact hours) and	d course language av	vailable)	
amination of one candidate each (approx. 20 minutes) or d) oral examination in groups (groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or e) presentation/talk (approx. 15 to 30 minutes) Language of assessment: German, English    Allocation of places   Biochemistry Master's: 6 places. Places will be allocated by lot.   Additional information     Workload     Teaching cycle     Referred to in LPO I (examination regulations for teaching-degree programmes)     Module appears in						tion offered — if not every seme-	
Allocation of places Biochemistry Master's: 6 places. Places will be allocated by lot. Additional information Workload Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in	aminati minutes	ion of c s, grou	one candidate each (appr ps of 3: approx. 40 minut	ox. 20 minutes) or d) es) or e) presentation	oral examination in	groups (groups of 2: approx. 30	
Additional information Workload Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in							
Workload Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in	Biocher	mistry l	Master's: 6 places. Places	s will be allocated by	lot.		
Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in	Additio	nal info	ormation				
Teaching cycle Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in							
Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in	Worklo	ad					
Referred to in LPO I (examination regulations for teaching-degree programmes) Module appears in							
 Module appears in	Teaching cycle						
 Module appears in							
 Module appears in	<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)						
Master's degree (1 major) Biochemistry (2012)	Module	appea	irs in				
	Master'	s degre	ee (1 major) Biochemistry	(2012)			

Master'	's with	1 major	Biochemistry	(2012)

Module title				Abbreviation		
Basics in Organic Chemistry 4 08-MBC-OC			08-MBC-OC4-122-m01			
Module coordinator Module offered b			Module offered by			
holder	of the (	Chair of Organic Chemisti	y II	Institute of Organic	Chemistry	
ECTS		od of grading	Only after succ. com	pl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate				
Conten	Its					
	zardou				nd syntheses, working with spe- ification methods and product	
Intend	ed lear	ning outcomes				
able to protein ids.	charac is. In ac	terise and categorise dye Idition, they are able to c	es. Students are able lescribe the structure	to describe the strue of the DNA, carbohy	actions and syntheses. They are cture and selective synthesis of ydrates, fats, terpenes and stero-	
Course	<b>s</b> (type	, number of weekly conta	ct hours, language —	- if other than Germa	ın)	
V + Ü (ı	no infoi	mation on SWS (weekly	contact hours) and co	ourse language avail	able)	
		<b>sessment</b> (type, scope, la on on whether module ca			tion offered — if not every seme-	
or 90 n each (a	ninutes approx.		tions: approx. 60 min amination in groups	nutes each) or b) ora	tten examinations: approx. 60 l examination of one candidate . 30 minutes)	
Allocat						
Additio	onal inf	ormation				
Worklo	ad					
Teaching cycle						
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)						
Module appears in						
Master's degree (1 major) Biochemistry (2012)						

Module title			Abbreviation			
Protein quality control 08-MBC-PQK-122-			08-MBC-PQK-122-m01			
Module	e coord	inator		Module offered by		
holder	of the (	Chair of Biochemistry		Chair of Biochemist	ry	
ECTS	î	od of grading	Only after succ. com	pl. of module(s)		
10	nume	rical grade				
Duratio	n	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
		actical experiments, stud otein degradation in euka		age with scientific m	nethods and lab techniques in	
Intende	ed lear	ning outcomes				
		ter the techniques used i its they have performed a			plain and critically reflect upon dings in a written report.	
Course	<b>s</b> (type	, number of weekly conta	ct hours, language –	if other than Germa	n)	
Ü + S (r	no infoi	mation on SWS (weekly o	contact hours) and co	ourse language avail	able)	
		s <b>essment</b> (type, scope, la on on whether module ca			tion offered — if not every seme-	
on in gr 15 to 30 Assess	roups ( o minut ment o	groups of 2: approx. 30 n	ninutes, groups of 3:		20 minutes) or c) oral examinati- or d) presentation/talk (approx.	
Allocat	ion of p	olaces				
Additio	nal inf	ormation				
Worklo	Workload					
Teaching cycle						
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)						
Module	Module appears in					
Master	Master's degree (1 major) Biochemistry (2012)					

Module	e title				Abbreviation		
RNA worlds					08-MBC-RNAW-122-m01		
Module	e coord	inator		Module offered by			
holder	of the (	Chair of Biochemistry		Chair of Biochemist	try		
ECTS		od of grading	Only after succ. com	pl. of module(s)			
5	nume	rical grade					
Duratio		Module level	Other prerequisites				
1 seme	ster	graduate					
Conten	ts						
state of	f reseai		lexes, their structures		pth exploration of the current ell as the theoretical principles of		
Intende	ed learı	ning outcomes					
learned	l to nev		e to situate new resea		able to transfer what they have the context of existing knowledge		
Course	<b>s</b> (type	, number of weekly conta	ct hours, language —	· if other than Germa	n)		
S + S (n	infor	mation on SWS (weekly o	contact hours) and co	urse language availa	able)		
		<b>sessment</b> (type, scope, la on on whether module ca			tion offered — if not every seme-		
nutes e of one o approx.	ach; 3 candida . 30 mi	written examinations: ap	prox. 40 minutes eac utes) or d) oral exam x. 40 minutes) or e) p	h) or b) log (approx. ination in groups of t	ten examinations: approx. 45 mi- 20 pages) or c) oral examination up to 3 candidates (groups of 2: pprox. 15 to 30 minutes)		
Allocat							
Additio	nal inf	ormation					
Worklo	ad						
Teaching cycle							
Referre	<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)						
Module	Module appears in						
	Master's degree (1 major) Biochemistry (2012)						

Module title	Module title Abbreviation					
Structure and	Structure and function of RNA-protein complexes 08-MBC-RNP-122-m01					
Module coord	linator		Module offered by			
	Chair of Biochemistry		Chair of Biochemis	try		
	od of grading	Only after succ. con		,		
10 nume	erical grade					
Duration	Module level	Other prerequisites				
1 semester	graduate					
Contents						
	ractical experiments, stud tion of RNA-protein compl	• -	age with scientific n	nethods and lab techniques for		
Intended lea	rning outcomes					
	ster the techniques used i nts they have performed a			xplain and critically reflect upon dings in a written report.		
Courses (type	e, number of weekly conta	ict hours, language –	- if other than Germa	an)		
Ü + S (no info	ormation on SWS (weekly	contact hours) and co	ourse language avail	able)		
	<b>sessment</b> (type, scope, la tion on whether module c			ation offered — if not every seme-		
on in groups 15 to 30 minu Assessment	(groups of 2: approx. 30 n	ninutes, groups of 3:		20 minutes) or c) oral examinati- ) or d) presentation/talk (approx.		
Allocation of	places					
Additional in	formation					
Workload						
Teaching cycle						
Referred to in	LPOI (examination regu	lations for teaching-	degree programmes)			
Module appears in						
Master's deg	Master's degree (1 major) Biochemistry (2012)					

Module title Ab				Abbreviation			
Scienti	fic lect	uring M1			08-MBC-WR1-122-m01		
Module	e coord	inator		Module offered by			
chairpe mistry)	erson of	f examination committee	Biochemie (Bioche-	Chair of Biochemist	try		
ECTS		od of grading	Only after succ. com	pl. of module(s)			
5	(not) s	successfully completed					
Duratio	on	Module level	Other prerequisites				
1 seme	ster	graduate					
Conten	ts						
		ives students the opport I Pharmacy and learn hov			ecture offered by the Faculty of priate manner.		
Intende	ed learr	ning outcomes					
Studen needs.	ts are a	ble to teach students in	earlier stages of thei	r degrees and tailor t	heir teaching to those students'		
Course	<b>s</b> (type,	, number of weekly conta	ct hours, language —	if other than Germa	n)		
T (no in	format	ion on SWS (weekly cont	act hours) and course	e language available	)		
		e <b>ssment</b> (type, scope, la on on whether module ca			tion offered — if not every seme-		
sessme	ent to b	supervising study group e specified at the beginn ssessment: German or Ei	ing of the course)	successfully comple	ted (type and length of as-		
Allocat	ion of p	olaces					
Additio	nal info	ormation					
Worklo	ad						
Teaching cycle							
Referre	d to in	LPOI (examination regu	lations for teaching-c	legree programmes)			
Module	e appea	in and a second s					
Master	Master's degree (1 major) Biochemistry (2012)						

Module title					Abbreviation	
Scientific lecturing M2					08-MBC-WR2-122-m01	
Module coordinator				Module offered by		
chairperson of examination committee mistry)			Biochemie (Bioche-	Chair of Biochemistry		
ECTS		od of grading	Only after succ. com	pl. of module(s)		
5	(not) s	successfully completed				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	graduate				
Conten	ts					
		ives students the opport Pharmacy and learn hov			ecture offered by the Faculty of priate manner.	
Intende	ed learr	ning outcomes				
Studen needs.	ts are a	able to teach students in	earlier stages of thei	r degrees and tailor t	heir teaching to those students'	
Course	<b>s</b> (type,	, number of weekly conta	ct hours, language —	if other than Germa	n)	
T (no in	format	ion on SWS (weekly cont	act hours) and course	e language available	)	
		e <b>ssment</b> (type, scope, la on on whether module ca			tion offered — if not every seme-	
sessme	ent to b	supervising study group e specified at the beginn ssessment: German or Ei	ing of the course)	successfully comple	ted (type and length of as-	
Allocat	ion of p	olaces				
Additional information						
Workload						
Teaching cycle						
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)						
Module appears in						
Master's degree (1 major) Biochemistry (2012)						

Module title					Abbreviation	
Principles of drug design					08-MCM3-102-m01	
Module coordinator				Module offered by		
lecture mistry)		mazeutische Chemie (Ph	armaceutical Che-	Institute of Pharma	cy and Food Chemistry	
ECTS		od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ester	graduate				
Conten	nts					
cophor QSAR.	re mod Predict	els, docking, virtual scree	ning, simulation met	hods, de novo desig	ire-based drug design, pharma- gn. Ligand-based drug design. ase examples, prodrug strate-	
Intende	ed lear	ning outcomes				
Studen	nts mas	ter the theoretical and ex	perimental methods	and aspects of drug	design.	
Course	<b>s</b> (type	, number of weekly conta	ct hours, language –	- if other than Germa	in)	
S + Ü (r	no info	rmation on SWS (weekly o	contact hours) and co	ourse language avail	able)	
<b>Method of assessment</b> (type, scope, language — if other than German, examination offered — if not every seme- ster, information on whether module can be chosen to earn a bonus)						
		with discussion (approx. ssessment: German or Ei				
Allocat	tion of	places				
Chemistry Master's and Mathematics Master's: no restrictions. Biochemistry Master's: 10 places. Places will be allocated by lot.						
Additio	onal inf	ormation				
Worklo	ad					
Teaching cycle						
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)						
Module appears in						
Master's degree (1 major) Biochemistry (2012)						
Master's degree (1 major) Chemistry (2010)						
	Master's degree (1 major) Mathematics (2010)					
Master	Master's degree (1 major) FOKUS Pharmacy (2012)					

Master's with 1 major Biochemistry (2012)	JMU Würzburg • generated 26-Aug-2024 • exam.	page 59 / 63
	reg. data record Master (120 ECTS) Biochemie - 2012	

Module title					Abbreviation
Modern Aspects of Natural Product Chemistry and Biological Chemistry 08-OCM-NAT-102-mo1					08-OCM-NAT-102-m01
Module coordinator				Module offered	by
lecture	er of the	seminar	,	Institute of Orga	nic Chemistry
ECTS	1	od of grading	Only after succ. con	npl. of module(s)	
5	nume	rical grade			
Duratio	on	Module level	Other prerequisites		
1 seme	ester	graduate			
Conten	nts				
This m	odule c	liscusses advanced topic	s in natural product o	chemistry and bio	logical chemistry.
Intend	ed lear	ning outcomes			
Studer	nts are a	able to discuss advanced	topics in natural pro	duct chemistry a	nd biological chemistry.
Course	es (type	, number of weekly conta	ict hours, language –	- if other than Ger	man)
S (no ii	nforma	tion on SWS (weekly cont	act hours) and cours	e language availa	ble)
					ination offered — if not every seme-
a) 1 to oral ex thods o the cur Langua Allocat Chemis	3 writte aminat of asse rrent se age of a t <b>ion of</b> J stry Ma	ion in groups (groups of a ssment, the module coor mester at the beginning o ssessment: German or E	o minutes) or b) oral e 2, 30 minutes). Shoul dinator will choose th of the course. nglish	examination of on Id there be the op ne method to be u	e candidate each (20 minutes) or c) tion to choose between several me sed for the module component in will be allocated by lot.
a) 1 to oral ex thods o the cur Langua Allocat Chemis	3 writte aminat of asse rrent se age of a t <b>ion of</b> J stry Ma	en examinations (60 or 90 ion in groups (groups of 2 ssment, the module coor mester at the beginning o ssessment: German or El <b>places</b> ster's: no restrictions. Bio	o minutes) or b) oral e 2, 30 minutes). Shoul dinator will choose th of the course. nglish	examination of on Id there be the op ne method to be u	tion to choose between several me sed for the module component in
a) 1 to oral ex thods o the cur Langua Allocat Chemis	3 writte aminat of asse rrent se age of a tion of stry Ma onal inf	en examinations (60 or 90 ion in groups (groups of 2 ssment, the module coor mester at the beginning o ssessment: German or El <b>places</b> ster's: no restrictions. Bio	o minutes) or b) oral e 2, 30 minutes). Shoul dinator will choose th of the course. nglish	examination of on Id there be the op ne method to be u	tion to choose between several me sed for the module component in
a) 1 to oral ex thods of the cur Langua Allocat Chemis Additic	3 writte aminat of asse rrent se age of a tion of stry Ma onal inf	en examinations (60 or 90 ion in groups (groups of 2 ssment, the module coor mester at the beginning o ssessment: German or El <b>places</b> ster's: no restrictions. Bio	o minutes) or b) oral e 2, 30 minutes). Shoul dinator will choose th of the course. nglish	examination of on Id there be the op ne method to be u	tion to choose between several me sed for the module component in
a) 1 to oral ex thods of the cur Langua Allocat Chemis Additic  Worklo	3 writte aminat of asse rrent se age of a <b>tion of</b>   stry Ma <b>onal inf</b>	en examinations (60 or 90 ion in groups (groups of 2 ssment, the module coor mester at the beginning o ssessment: German or Er <b>places</b> ster's: no restrictions. Bio <b>ormation</b>	o minutes) or b) oral e 2, 30 minutes). Shoul dinator will choose th of the course. nglish	examination of on Id there be the op ne method to be u	tion to choose between several me sed for the module component in
a) 1 to oral ex thods of the cur Langua Allocat Chemis Additic  Worklo	3 writte aminat of asse rrent se age of a tion of stry Ma onal inf	en examinations (60 or 90 ion in groups (groups of 2 ssment, the module coor mester at the beginning o ssessment: German or Er <b>places</b> ster's: no restrictions. Bio <b>ormation</b>	o minutes) or b) oral e 2, 30 minutes). Shoul dinator will choose th of the course. nglish	examination of on Id there be the op ne method to be u	tion to choose between several me sed for the module component in
a) 1 to oral ex thods of the cur Langua Allocat Chemis Additic  Worklo  Teachi 	3 writte aminat of asse rrent se age of a tion of p stry Ma onal inf oad	en examinations (60 or 90 ion in groups (groups of 2 ssment, the module coor mester at the beginning o ssessment: German or Er <b>places</b> ster's: no restrictions. Bio <b>ormation</b>	o minutes) or b) oral e 2, 30 minutes). Shoul dinator will choose th of the course. nglish ochemistry Master's:	examination of on d there be the op ne method to be u 20 places. Places	tion to choose between several me sed for the module component in will be allocated by lot.
a) 1 to oral ex thods of the cur Langua Allocat Chemis Additic  Worklo  Teachi 	3 writte aminat of asse rrent se age of a tion of p stry Ma onal inf oad	en examinations (60 or 90 ion in groups (groups of 2 ssment, the module coor mester at the beginning o ssessment: German or Er <b>places</b> ster's: no restrictions. Bio <b>ormation</b>	o minutes) or b) oral e 2, 30 minutes). Shoul dinator will choose th of the course. nglish ochemistry Master's:	examination of on d there be the op ne method to be u 20 places. Places	tion to choose between several me sed for the module component in will be allocated by lot.
a) 1 to oral ex thods of the cur Langua Allocat Chemis Additic  Worklo  Teachi  Referre	3 writte aminat of asse rrent se age of a tion of p stry Ma onal inf oad ng cycl	en examinations (60 or 90 ion in groups (groups of 2 ssment, the module coor mester at the beginning of ssessment: German or En places ster's: no restrictions. Bio ormation e LPO I (examination regu	o minutes) or b) oral e 2, 30 minutes). Shoul dinator will choose th of the course. nglish ochemistry Master's:	examination of on d there be the op ne method to be u 20 places. Places	tion to choose between several me sed for the module component in will be allocated by lot.
a) 1 to oral ex thods of the cur Langua Allocat Chemis Additic  Worklo  Teachi  Referre  Modulo	3 writte aminat of asse rrent se age of a tion of p stry Ma onal inf onal inf oad ng cycl	en examinations (60 or 90 ion in groups (groups of 2 ssment, the module coor mester at the beginning of ssessment: German or En places ster's: no restrictions. Bio formation e LPO I (examination regu	o minutes) or b) oral e 2, 30 minutes). Shoul dinator will choose th of the course. nglish ochemistry Master's:	examination of on d there be the op ne method to be u 20 places. Places	tion to choose between several me sed for the module component in will be allocated by lot.
a) 1 to oral ex thods of the cur Langua Allocat Chemis Additic  Worklo  Teachi  Referre  Modulo	3 writte aminat of asse rrent se age of a tion of stry Ma onal inf onal inf oad ng cycl ed to in e appea	en examinations (60 or 90 ion in groups (groups of 2 ssment, the module coor mester at the beginning of ssessment: German or En places ster's: no restrictions. Bio ormation e LPO I (examination regu	o minutes) or b) oral e 2, 30 minutes). Shoul dinator will choose th of the course. nglish ochemistry Master's:	examination of on d there be the op ne method to be u 20 places. Places	tion to choose between several me sed for the module component in will be allocated by lot.
a) 1 to oral ex thods of the cur Langua Allocat Chemis Additic  Worklo  Teachi  Referre Master Master	3 writte aminat of asse rrent se age of a tion of a stry Ma onal inf oad ng cycl ed to in e appea r's degr	en examinations (60 or 90 ion in groups (groups of 2 ssment, the module coor mester at the beginning of ssessment: German or En places ster's: no restrictions. Bio ormation ee LPO I (examination regu ars in ee (1 major) Biochemistry	o minutes) or b) oral e 2, 30 minutes). Shoul dinator will choose th of the course. nglish ochemistry Master's: lations for teaching-o (2012) 013)	examination of on d there be the op ne method to be u 20 places. Places	tion to choose between several me sed for the module component in will be allocated by lot.

Module title				Abbreviation		
Clinical and Analytical Chemistry					08-PH-KAC-092-m01	
Module	e coord	inator		Module offered by		
	lecturer of lecture "Klinisch-analytische Chemie" (Clinical and Analytical Chemistry)			Institute of Pharmacy and Food Chemistry		
ECTS	Metho	od of grading	Only after succ. con	npl. of module(s)		
5	nume	rical grade				
Duratio	on	Module level	Other prerequisites			
1 seme	ster	undergraduate				
Conten	ts					
This mo	odule d	liscusses advanced topic	s in clinical analytica	al chemistry.		
Intende	ed lear	ning outcomes				
Studen	ts have	e developed an advanced	knowledge of molec	ular biology.		
Course	<b>s</b> (type	, number of weekly conta	act hours, language –	- if other than Germa	n)	
V (no ir	format	tion on SWS (weekly cont	tact hours) and cours	e language available	2)	
ster, in written	formati exami	ion on whether module contaction (120 minutes)			tion offered — if not every seme-	
Allocat	ion of j	DIACES	-			
 A J J!4! -						
Additio	Additional information					
 Worklo						
WUIKIU	au					
Teachi	Teaching cycle					
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)						
Module appears in						
Master's degree (1 major) Biochemistry (2012) Master's degree (1 major) Chemistry (2013) Master's degree (1 major) Chemistry (2010) Master's degree (1 major) Chemistry (2014)						

Module title					Abbreviation
Clinical and Analytical Chemistry (practical course)					08-PH-KACP-092-m01
Module coordinator				Module offered by	
		ture "Klinisch-analytische	e Chemie" (Clinical	Institute of Pharma	cy and Food Chemistry
and An	<u> </u>	l Chemistry)	r		
ECTS		od of grading	Only after succ. con	npl. of module(s)	
5	(not) :	successfully completed			
Duratio	on	Module level	Other prerequisites		
1 seme	ster	undergraduate			
Conten	Its				
This mo methoo		overs practical topics in o	clinical chemistry and	d clinical diagnostics	as well as the related analytical
Intend	ed lear	ning outcomes			
Studen ments.		e developed a knowledge	of clinical analytical	chemistry and are a	ble to apply it to practical experi-
Course	<b>s</b> (type	, number of weekly conta	ict hours, language –	- if other than Germa	n)
P (no ir	nforma	tion on SWS (weekly cont	act hours) and cours	e language available	e)
		sessment (type, scope, la ion on whether module ca			tion offered — if not every seme-
examin	nation t	alks (Testate, approx. 15	minutes each), log (a	pprox. 5 to 10 pages	)
Allocat	ion of	places			
Additio	onal inf	ormation	-		
Worklo	ad				
Teachi	ng rvrl	e			
	.5 cycl	•			
Referre	d to in	LPOI (examination regu	lations for teaching	legree programmoc)	
Kerente				active programmes)	
Module		arc in			
			(2012)		
	-	ee (1 major) Biochemistry ee (1 major) Chemistry (2			
Master's degree (1 major) Chemistry (2013) Master's degree (1 major) Chemistry (2010)					
	JULSI				

Module title					Abbreviation		
Bioorganic Chemistry					08-SCM3-102-m01		
Module coordinator				Module offered by			
	lecturer of lecture "Bioorganische Chemie" Chemistry)			Institute of Organic	Chemistry		
ECTS	Metho	od of grading	Only after succ. com	pl. of module(s)			
		rical grade					
Duratior	n	Module level	Other prerequisites				
1 semes	ster	graduate					
Content	S						
lar intera	action				medicine. It focuses on molecu- new aspects of DNA, RNA, prote-		
Intende	d learr	ning outcomes					
can expl	lain th		iological systems. Th	ney can characterise	s of bioorganic chemistry. They the fabrication of agents. They		
Courses	type,	number of weekly conta	ct hours, language —	if other than Germa	n)		
S (no inf	format	ion on SWS (weekly cont	act hours) and cours	e language available	)		
ster, info a) 1 to 3	ormati writte	on on whether module ca n examinations (60 or 90	an be chosen to earn minutes) or b) oral e	a bonus) examination of one c	tion offered — if not every seme- andidate each (20 minutes) or c)		
thods of the curre	f asses ent sei		dinator will choose th of the course.		n to choose between several me- d for the module component in		
Allocatio							
Addition	nal info	ormation					
Workloa	Workload						
Teaching cycle							
<b>Referred to in LPO I</b> (examination regulations for teaching-degree programmes)							
Module appears in							
Master's	Master's degree (1 major) Biochemistry (2012)						
Master's degree (1 major) Chemistry (2013)							
Master's degree (1 major) Chemistry (2010)							
Master's	Master's degree (1 major) FOKUS Pharmacy (2012)						