

Annex SFB

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

Responsible: Faculty of Medicine

Responsible: Faculty of Chemistry and Pharmacy

Examination regulations version: 2017

Examination regulations version: 2017

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

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

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

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

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

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

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

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

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

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

ASPO2015

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

05-Jul-2017 (2017-43)

27-Mar-2019 (2019-19)

24-Mar-2020 (2020-25)

13-Dec-2023 (2023-110)

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

Every module will be described using the following form:

Abbreviation	Module title						
	ECTS		Duration	(in semesters)	Method of grading		Module level
	Courses	To be specified in the form X (y) with course type X abbreviated as specified above and number of weekly contact hours y					
	Method of assessment						
	Only after successful completion of	if applicable					
	Other prerequisites	if applicable					
	Participants and allocation of places	if applicable					
	Additional information	if applicable					
	Referred to in LPO I	if applicable (examination regulations for teaching-degree programmes)					

Compulsory Electives 1 (50 ECTS credits)								
Focus - Molecular Life-Sciences (50 ECTS credits)								
Subfield - Structural and Functional Biochemistry (30 ECTS credits)								
o8-MBC-RNAW-152-m01	RNA worlds							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V (1) + S (1) Module taught in: German or English						
	Method of assessment	a) written examination (30 to 60 minutes) or b) log (approx. 10 to 20 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) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: German and/or English						
o8-MBC-LCP-152-m01	Life cycle of proteins							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V (1) + S (1) Module taught in: German or English						
	Method of assessment	a) written examination (30 to 60 minutes) or b) log (approx. 10 to 20 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) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: German and/or English						
o8-MBC-RNP-152-m01	Structure and function of RNA-protein complexes							
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	Ü (6) Module taught in: German or English						
	Method of assessment	a) log (20 to 30 pages) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) or d) presentation (20 to 40 minutes) Language of assessment: German and/or English Assessment offered: Once a year, winter semester						

o8-MBC-PQK-152-mo1	Protein quality control							
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		Ü (6) Module taught in: German or English					
	Method of assessment		a) log (20 to 30 pages) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) or d) presentation (20 to 40 minutes) Language of assessment: German and/or English Assessment offered: Once a year, summer semester					
o8-MBC-MK-152-mo1	Macromolecular Crystallography							
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (2) + Ü (1) + P (5) Module taught in: German or English					
	Method of assessment		a) written examination (approx. 45 to 90 minutes) or b) log (20 to 30 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) or e) presentation (20 to 40 minutes) Language of assessment: German and/or English Assessment offered: Once a year, summer semester					
o8-MBC-MSP-152-mo1	Mass-Spectrometry and Proteomics							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (2) + S (1) + P (2) Module taught in: German or English					
	Method of assessment		a) written examination (approx. 45 to 90 minutes) or b) log (20 to 30 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) or e) presentation (20 to 40 minutes) Language of assessment: German and/or English Assessment offered: Once a year, winter semester					
	Participants and allocation of places		Biochemie (Biochemistry), Master's: 6 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available.					

o8-MCM3-152-mo1	Drug design							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		S (2) + Ü (1) Module taught in: German or English					
	Method of assessment		presentation with discussion (approx. 30 minutes) Language of assessment: German and/or English					
	Participants and allo- cation of places		20 places. 4 places for students of the Master's degree programme Chemie (Chemistry): Places will be allocated according to the same number of subject semesters; students who have chosen Medizinische Chemie (Medicinal Chemistry) as their focus will be given preferential consideration; among applicants with the same number of subject semesters, places will be allocated by lot.; 6 places for students of the Master's degree programme Biochemie (Biochemistry): Places will be allocated according to the number of subject semesters; among applicants with the same number of subject semesters, places will be allocated by lot; a waiting list will be maintained and places re-allocated by lot as they become available.					
o3-MBC-PBP-172-mo1	Biophysics of Proteins							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (2) + S (1) + P (2) Module taught in: English					
	Method of assessment		a) written examination (approx. 45 to 90 minutes) or b) log (20 to 30 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) or e) presentation (20 to 40 minutes) Language of assessment: German and/or English					
	Participants and allo- cation of places		Biochemie (Biochemistry) Master's: 63 places.					
o8-MBC-EMV-172-mo1	Electron microscopy and image processing in structural biology							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (1) + S (1) Module taught in: German or English					
	Method of assessment		a) written examination (approx. 45 to 90 minutes) or b) log (20 to 30 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) or e) presentation (20 to 40 minutes) Language of assessment: German and/or English					

o8-MBC-EMP-172-mo1	Practical course of electron microscopy and image processing							
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	P (8) Module taught in: German or English						
	Method of assessment	a) log (20 to 30 pages) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) or d) presentation (20 to 40 minutes) Language of assessment: German and/or English Assessment offered: Once a year, summer semester						
o8-MBC-FPV-232-mo1	Functional Proteomics: Deciphering Protein Worlds							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V (1) + S (1) Module taught in: German or English						
	Method of assessment	a) written examination (30 to 60 minutes; also multiple choice) or b) oral examination of one candidate each (30 to 60 minutes) or c) oral examination in groups of up to 3 candidates (30 to 60 minutes) or d) presentation (20 to 45 minutes) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: German and/or English Assessment offered: Once a year, winter semester						
o8-MBC-FPP-232-mo1	The Functional Proteome: Organization, Modulation and Dynamics							
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	Ü (6) Module taught in: German or English						
	Method of assessment	a) log (approx. 10 to 20 pages) 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) or d) presentation (20 to 45 minutes) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: German and/or English Assessment offered: Once a year, winter semester						
	other prerequisites	Students are highly recommended to complete module o8-MBC-FPV in the same semester.						
	Participants and allo- cation of places	12 Should the number of applications exceed the number of available places, places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available.						

o7-MS2B-T-152-m01	Biophysics and Molecular Biotechnology							
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (2) + S (1) Module taught in: English					
	Method of assessment		a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: German and/or English					
o8-MBC-LIT1-152-m01	Literature seminar 1							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		S (2) Module taught in: German or English					
	Method of assessment		presentation (20 to 40 minutes) Language of assessment: German and/or English					
o3-98-SCB-192-m01	Single Cell Biology							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (1,5) + Ü (0,5) Module taught in: English					
	Method of assessment		written examination (approx. 60 minutes) Language of assessment: English creditable for bonus					
	Participants and allo- cation of places		M.Sc.Biomed: 15 M.Sc. Biochem: 15 M.Sc. Biowis: 10 Selection process: allocation by lot					
Subfield - Molecular and Medical Cell Biology (20 ECTS credits)								
o3-MS2H-G-152-m01	Human genetics							
	ECTS	10	Duration	2 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (2) + S (2) Module taught in: German or English					
	Method of assessment		a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English					
o8-PH-KAC-152-m01	Clinical-analytical Chemistry							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (3)					
	Method of assessment		written examination (approx. 120 minutes) Language of assessment: German and/or English					
Master's with 1 major Biochemistry (2017)					JMU Würzburg • generated 19-Apr-2025 • exam. reg. data record 88 025 - H 2017			page 7 / 36

o8-PH-KACP-152-mo1	Practical course of clinical-analytical Chemistry							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	P (5)						
	Method of assessment	Vortestate/Nachtestate (pre and post-experiment examination talks approx. 15 minutes each, log approx. 5 to 10 pages each) and assessment of practical performance (2 to 4 random examinations) Language of assessment: German and/or English						
o7-MS2M1-152-mo1	Microbiology 1							
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V (2) + S (1)						
	Method of assessment	a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English						
o7-MS2M2-152-mo1	Participants and allocation of places	Biochemie (Biochemistry), Master's: 15 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available.						
	Microbiology 2							
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V (2) + S (1)						
o7-MS2INF-BC-191-mo1	Method of assessment	a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English						
	Participants and allocation of places	Biochemie (Biochemistry), Master's: 15 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available.						
	Infection Biology for Biochemistry Students							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
o7-MS2INF-BC-191-mo1	Courses	V (2) Module taught in: German and/or English						
	Method of assessment	a) written examination (30 to 60 minutes; also multiple choice) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: German and/or English						
	other prerequisites	May not be combined with o7-MS2M1.						

07-MS2PA-BC-191-m01	Pathogenicity of Microorganisms for Biochemistry Students							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V (2) Module taught in: German and/or English						
	Method of assessment	a) written examination (30 to 60 minutes; also multiple choice) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: German and/or English						
	other prerequisites	May not be combined with 07-MS2M2.						
03-MS2IM1-152-m01	Immunology 1							
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V (1) + S (2) Module taught in: English						
	Method of assessment	a) written examination (approx. 45 to 90 minutes) or b) log (20 to 30 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) or e) presentation (20 to 40 minutes) Language of assessment: German and/or English Assessment offered: Once a year, winter semester						
	Participants and allocation of places	Biochemie (Biochemistry), Master's: 3 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available.						
03-MS2IM2-152-m01	Immunology 2							
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V (1) + S (2) Module taught in: English						
	Method of assessment	a) written examination (approx. 45 to 90 minutes) or b) log (20 to 30 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) or e) presentation (20 to 40 minutes) Language of assessment: German and/or English Assessment offered: Once a year, summer semester						
	Participants and allocation of places	Biochemie (Biochemistry), Master's: 3 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available.						

03-MS2V1-152-m01	Virology 1							
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (1) + S (2) Module taught in: English					
	Method of assessment		a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English Assessment offered: Once a year, winter semester					
	Participants and allocation of places		Biochemie (Biochemistry), Master's: 3 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available.					
03-MS2V2-152-m01	Virology 2							
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (1) + S (2) Module taught in: English					
	Method of assessment		a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English Assessment offered: Once a year, summer semester					
	Participants and allocation of places		Biochemie (Biochemistry), Master's: 3 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available.					
03-98-PBG-152-m01	Bacterial genetics - Infectiology							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		V (1) + S (1) + Ü (4)					
	Method of assessment		a) written examination (approx. 45 to 90 minutes) or b) log (20 to 30 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) or e) presentation (20 to 40 minutes) Language of assessment: German and/or English					
	Participants and allocation of places		Biochemie (Biochemistry), Master's: 4 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available.					

03-98-MVKB-152-m01	Cardiovascular Biology							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V (2) Module taught in: German/English						
	Method of assessment	a) written examination (30 to 60 minutes) or b) log (approx. 10 to 20 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) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: German or English Assessment offered: Once a year, winter semester						
03-98-MV-MO-152-m01	Molecular Oncology							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V (2) Module taught in: German/English						
	Method of assessment	a) written examination (30 to 60 minutes) or b) log (approx. 10 to 20 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) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: German or English Assessment offered: Once a year, winter semester						
03-ONC-CLIN-152-m01	Clinical Oncology							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V (2) Module taught in: German or English						
	Method of assessment	a) written examination (30 to 60 minutes) 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) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: German and/or English						

03-98-MV-SZ-152-m01	Stem Cell Biology							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V (2) Module taught in: German/English						
	Method of assessment	a) written examination (30 to 60 minutes) or b) log (approx. 10 to 20 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) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: German or English Assessment offered: Once a year, summer semester						
03-98-MV-KN-152-m01	Clinical Neurobiology							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V (2) + S (2) Module taught in: English						
	Method of assessment	a) written examination (30 to 60 minutes) 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) or d) presentation (20 to 45 minutes) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: English						
03-98-MVTF-152-m01	Tissue Engineering / Functional Materials							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V (2) Module taught in: German/English						
	Method of assessment	a) written examination (30 to 60 minutes) or b) log (approx. 10 to 20 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) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: German or English Assessment offered: Once a year, winter semester						
o8-MBC-LIT2-152-m01	Literature seminar 2							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S (2) Module taught in: German or English						
	Method of assessment	presentation (20 to 40 minutes) Language of assessment: German and/or English						

03-MBC-TG-161-mo1	Tumor Genetics							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (1) + S (1) Module taught in: English					
	Method of assessment		a) written examination (approx. 45 to 90 minutes) or b) log (20 to 30 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) or e) presentation (20 to 40 minutes) Language of assessment: German and/or English					
Focus - Molecular Oncology (50 ECTS credits)								
Subfield - Tumor Biology (35 ECTS credits)								
03-98-MV-MO-152-mo1	Molecular Oncology							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (2) Module taught in: German/English					
	Method of assessment		a) written examination (30 to 60 minutes) or b) log (approx. 10 to 20 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) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: German or English Assessment offered: Once a year, winter semester					
03-ONC-CLIN-152-mo1	Clinical Oncology							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (2) Module taught in: German or English					
	Method of assessment		a) written examination (30 to 60 minutes) 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) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: German and/or English					

03-ONC-SEM1-152-m01	Oncology Seminar 1							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S (1) Module taught in: German or English						
	Method of assessment	a) written examination (approx. 45 to 90 minutes) or b) presentation (20 to 40 minutes) Language of assessment: German and/or English						
	Participants and allocation of places	Biochemie (Biochemistry), Master's: 18 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available.						
03-ONC-SEM2-152-m01	Oncology Seminar 2							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S (1) Module taught in: German or English						
	Method of assessment	a) written examination (approx. 45 to 90 minutes) or b) presentation (20 to 40 minutes) Language of assessment: German and/or English						
	Participants and allocation of places	Biochemie (Biochemistry), Master's: 18 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available.						
03-ONC-TUMP-152-m01	Experimental Tumor Biology							
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	P (8) Module taught in: German or English						
	Method of assessment	a) Log (20 to 30 pages) or b) presentation (20 to 40 minutes) Language of assessment: German and/or English						
	Participants and allocation of places	Biochemie (Biochemistry), Master's: 18 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available.						
03-ONC-LAB1-152-m01	Lab rotation Oncology							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	P (6) Module taught in: German or English						
	Method of assessment	a) Log (20 to 30 pages) or b) presentation (20 to 40 minutes) Language of assessment: German and/or English						
	Participants and allocation of places	Biochemie (Biochemistry), Master's: 18 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available.						

Subfield - Structural and Functional Biochemistry (15 ECTS credits)								
o8-MBC-RNAW-152-m01	RNA worlds							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V (1) + S (1) Module taught in: German or English						
	Method of assessment	a) written examination (30 to 60 minutes) or b) log (approx. 10 to 20 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) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: German and/or English						
o8-MBC-LCP-152-m01	Life cycle of proteins							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V (1) + S (1) Module taught in: German or English						
	Method of assessment	a) written examination (30 to 60 minutes) or b) log (approx. 10 to 20 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) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: German and/or English						
o8-MBC-RNP-152-m01	Structure and function of RNA-protein complexes							
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	Ü (6) Module taught in: German or English						
	Method of assessment	a) log (20 to 30 pages) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) or d) presentation (20 to 40 minutes) Language of assessment: German and/or English Assessment offered: Once a year, winter semester						

o8-MBC-PQK-152-mo1	Protein quality control							
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		Ü (6) Module taught in: German or English					
	Method of assessment		a) log (20 to 30 pages) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) or d) presentation (20 to 40 minutes) Language of assessment: German and/or English Assessment offered: Once a year, summer semester					
o8-MBC-MK-152-mo1	Macromolecular Crystallography							
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (2) + Ü (1) + P (5) Module taught in: German or English					
	Method of assessment		a) written examination (approx. 45 to 90 minutes) or b) log (20 to 30 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) or e) presentation (20 to 40 minutes) Language of assessment: German and/or English Assessment offered: Once a year, summer semester					
o8-MBC-MSP-152-mo1	Mass-Spectrometry and Proteomics							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (2) + S (1) + P (2) Module taught in: German or English					
	Method of assessment		a) written examination (approx. 45 to 90 minutes) or b) log (20 to 30 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) or e) presentation (20 to 40 minutes) Language of assessment: German and/or English Assessment offered: Once a year, winter semester					
	Participants and allocation of places		Biochemie (Biochemistry), Master's: 6 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available.					

o8-MCM3-152-mo1	Drug design							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		S (2) + Ü (1) Module taught in: German or English					
	Method of assessment		presentation with discussion (approx. 30 minutes) Language of assessment: German and/or English					
	Participants and allo- cation of places		20 places. 4 places for students of the Master's degree programme Chemie (Chemistry): Places will be allocated according to the same number of subject semesters; students who have chosen Medizinische Chemie (Medicinal Chemistry) as their focus will be given preferential consideration; among applicants with the same number of subject semesters, places will be allocated by lot.; 6 places for students of the Master's degree programme Biochemie (Biochemistry): Places will be allocated according to the number of subject semesters; among applicants with the same number of subject semesters, places will be allocated by lot; a waiting list will be maintained and places re-allocated by lot as they become available.					
o3-MBC-PBP-172-mo1	Biophysics of Proteins							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (2) + S (1) + P (2) Module taught in: English					
	Method of assessment		a) written examination (approx. 45 to 90 minutes) or b) log (20 to 30 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) or e) presentation (20 to 40 minutes) Language of assessment: German and/or English					
	Participants and allo- cation of places		Biochemie (Biochemistry) Master's: 63 places.					
o8-MBC-EMV-172-mo1	Electron microscopy and image processing in structural biology							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (1) + S (1) Module taught in: German or English					
	Method of assessment		a) written examination (approx. 45 to 90 minutes) or b) log (20 to 30 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) or e) presentation (20 to 40 minutes) Language of assessment: German and/or English					

o8-MBC-EMP-172-mo1	Practical course of electron microscopy and image processing							
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	P (8) Module taught in: German or English						
	Method of assessment	a) log (20 to 30 pages) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) or d) presentation (20 to 40 minutes) Language of assessment: German and/or English Assessment offered: Once a year, summer semester						
o8-MBC-FPV-232-mo1	Functional Proteomics: Deciphering Protein Worlds							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V (1) + S (1) Module taught in: German or English						
	Method of assessment	a) written examination (30 to 60 minutes; also multiple choice) or b) oral examination of one candidate each (30 to 60 minutes) or c) oral examination in groups of up to 3 candidates (30 to 60 minutes) or d) presentation (20 to 45 minutes) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: German and/or English Assessment offered: Once a year, winter semester						
o8-MBC-FPP-232-mo1	The Functional Proteome: Organization, Modulation and Dynamics							
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	Ü (6) Module taught in: German or English						
	Method of assessment	a) log (approx. 10 to 20 pages) 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) or d) presentation (20 to 45 minutes) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: German and/or English Assessment offered: Once a year, winter semester						
	other prerequisites	Students are highly recommended to complete module o8-MBC-FPV in the same semester.						
	Participants and allocation of places	12 Should the number of applications exceed the number of available places, places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available.						

o7-MS2B-T-152-m01	Biophysics and Molecular Biotechnology							
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V (2) + S (1) Module taught in: English						
	Method of assessment	a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: German and/or English						
o8-MBC-LIT1-152-m01	Literature seminar 1							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S (2) Module taught in: German or English						
	Method of assessment	presentation (20 to 40 minutes) Language of assessment: German and/or English						
o3-98-SCB-192-m01	Single Cell Biology							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V (1,5) + Ü (0,5) Module taught in: English						
	Method of assessment	written examination (approx. 60 minutes) Language of assessment: English creditable for bonus						
	Participants and allocation of places	M.Sc.Biomed: 15 M.Sc. Biochem: 15 M.Sc. Biowis: 10 Selection process: allocation by lot						
Compulsory Electives 2 (40 ECTS credits)								
Focus Expert Key Qualifications (practice oriented) (40 ECTS credits)								
Subfield Research oriented Projects (30 ECTS credits)								
o8-MBC-AP1-152-m01	Practical course - abroad 1							
	ECTS	30	Duration		Method of grading	(not) successfully completed	Modul level	graduate
	Courses	No courses assigned to module						
	Method of assessment	a) log (approx. 20 pages) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or d) presentation/talk (approx. 15 to 30 minutes) Language of assessment: German or English						
	Additional Information	Duration of practical course: no less than 15 weeks.						

o8-MBC-AP2-152-m01	Practical course - abroad 2							
	ECTS	15	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses		No courses assigned to module					
	Method of assessment		a) log (approx. 20 pages) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or d) presentation/talk (approx. 15 to 30 minutes) Language of assessment: German or English					
	Additional Information		Duration of practical course: no less than 8 weeks.					
o8-MBC-EP1-152-m01	Practical course - external 1							
	ECTS	15	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses		No courses assigned to module					
	Method of assessment		a) log (approx. 20 pages) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or d) presentation/talk (approx. 15 to 30 minutes) Language of assessment: German or English					
	Additional Information		Duration of practical course: no less than 8 weeks.					
o8-MBC-EP2-152-m01	Practical course - external 2							
	ECTS	15	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses		No courses assigned to module					
	Method of assessment		a) log (approx. 20 pages) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or d) presentation/talk (approx. 15 to 30 minutes) Language of assessment: German or English					
	Additional Information		Duration of practical course: no less than 8 weeks.					
o8-MBC-LP1-152-m01	Practical lab course 1							
	ECTS	15	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses		No courses assigned to module					
	Method of assessment		a) log (approx. 20 pages) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or d) presentation/talk (approx. 15 to 30 minutes) Language of assessment: German or English					
	Additional Information		Duration of practical course: no less than 8 weeks.					

o8-MBC-LP2-152-m01	Practical lab course 2							
	ECTS	15	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses		No courses assigned to module					
	Method of assessment		a) log (approx. 20 pages) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or d) presentation/talk (approx. 15 to 30 minutes) Language of assessment: German or English					
	Additional Information		Duration of practical course: no less than 8 weeks.					
o8-MBC-LP3-152-m01	Practical lab course 3							
	ECTS	10	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses		No courses assigned to module					
	Method of assessment		a) log (approx. 20 pages) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or d) presentation/talk (approx. 15 to 30 minutes) Language of assessment: German or English					
	Additional Information		Duration of practical course: no less than 6 weeks.					
o8-MBC-LP4-152-m01	Practical lab course 4							
	ECTS	10	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses		No courses assigned to module					
	Method of assessment		a) log (approx. 20 pages) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or d) presentation/talk (approx. 15 to 30 minutes) Language of assessment: German or English					
	Additional Information		Duration of practical course: no less than 6 weeks.					
o8-MBC-LP5-152-m01	Practical lab course 5							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses		No courses assigned to module					
	Method of assessment		a) log (approx. 20 pages) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or d) presentation/talk (approx. 15 to 30 minutes) Language of assessment: German or English					
	Additional Information		Duration of practical course: no less than 3 weeks.					

o8-MBC-LP6-152-mo1	Practical lab course 6							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	No courses assigned to module						
	Method of assessment	a) log (approx. 20 pages) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or d) presentation/talk (approx. 15 to 30 minutes) Language of assessment: German or English						
	Additional Information	Duration of practical course: no less than 3 weeks.						
o8-MBC-WR2-152-mo1	Scientific lecturing M2							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	No courses assigned to module						
	Method of assessment	Preparing and supervising study groups: assessment to be successfully completed (type and length of assessment to be specified at the beginning of the course) Language of assessment: German or English						
o8-MBC-AWA2-152-mo1	Assistance in practical courses 2							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	No courses assigned to module						
	Method of assessment	Preparing and supervising student lab courses: assessment to be successfully completed (type and length of assessment to be specified at the beginning of the course) Language of assessment: German or English						
Subfield Compleitive Qualifications (10 ECTS credits)								
o8-SCM3-152-mo1	Bioorganic Chemistry							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S (3)						
	Method of assessment	a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English						
o8-ACM2-152-mo1	Bioanorganic Chemistry							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S (3)						
	Method of assessment	a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English						

o8-OCM-NAT-152-mo1	Modern aspects of natural product Chemistry and Biological Chemistry							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		S (3)					
	Method of assessment		a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English					
	Participants and allocation of places		Biochemie (Biochemistry), Master's: 20 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available.					
o8-HKM1-152-mo1	Organo- and Biocatalysis							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		S (3)					
	Method of assessment		a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English					
o7-MS2BI-152-mo1	Bioinformatics							
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (2) + S (1) Module taught in: German and/or English					
	Method of assessment		a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English					
o7-MS3S-152-mo1	Systems Biology							
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (2) + S (1) Module taught in: German and/or English					
	Method of assessment		a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English					

07-MLS1-152-m01	Methods in Life Sciences							
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (3) Module taught in: English					
	Method of assessment		a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: English					
03-VTK-152-m01	Animal science and welfare							
	ECTS	3	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses		V (2) + P (1)					
	Method of assessment		written examination (approx. 90 minutes) Language of assessment: German and/or English					
other prerequisites		Regular attendance of practical course (as specified at the beginning of the course).						
08-MBC-WR1-152-m01	Scientific lecturing M1							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses		T (o)					
	Method of assessment		Preparing and supervising study groups, wrap-up report (approx. 2 pages) Language of assessment: German and/or English					
08-MBC-AWA1-152-m01	Assistance in practical courses 1							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses		T (o)					
	Method of assessment		Preparing and supervising student lab courses, wrap-up report (approx. 1 page) Language of assessment: German and/or English					
08-MBC-LIT3-152-m01	Literature seminar 3							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		S (2) Module taught in: German or English					
	Method of assessment		presentation (20 to 40 minutes) Language of assessment: German and/or English					

Focus - Expert Key Qualifications (40 ECTS credits)								
Subfield Research oriented Projects (20 ECTS credits)								
o8-MBC-AP1-152-m01	Practical course - abroad 1							
	ECTS	30	Duration		Method of grading	(not) successfully completed	Modul level	graduate
	Courses		No courses assigned to module					
	Method of assessment		a) log (approx. 20 pages) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or d) presentation/talk (approx. 15 to 30 minutes) Language of assessment: German or English					
	Additional Information		Duration of practical course: no less than 15 weeks.					
o8-MBC-AP2-152-m01	Practical course - abroad 2							
	ECTS	15	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses		No courses assigned to module					
	Method of assessment		a) log (approx. 20 pages) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or d) presentation/talk (approx. 15 to 30 minutes) Language of assessment: German or English					
	Additional Information		Duration of practical course: no less than 8 weeks.					
o8-MBC-EP1-152-m01	Practical course - external 1							
	ECTS	15	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses		No courses assigned to module					
	Method of assessment		a) log (approx. 20 pages) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or d) presentation/talk (approx. 15 to 30 minutes) Language of assessment: German or English					
	Additional Information		Duration of practical course: no less than 8 weeks.					
o8-MBC-EP2-152-m01	Practical course - external 2							
	ECTS	15	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses		No courses assigned to module					
	Method of assessment		a) log (approx. 20 pages) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or d) presentation/talk (approx. 15 to 30 minutes) Language of assessment: German or English					
	Additional Information		Duration of practical course: no less than 8 weeks.					

o8-MBC-LP1-152-mo1	Practical lab course 1							
	ECTS	15	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	No courses assigned to module						
	Method of assessment	a) log (approx. 20 pages) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or d) presentation/talk (approx. 15 to 30 minutes) Language of assessment: German or English						
	Additional Information	Duration of practical course: no less than 8 weeks.						
o8-MBC-LP2-152-mo1	Practical lab course 2							
	ECTS	15	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	No courses assigned to module						
	Method of assessment	a) log (approx. 20 pages) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or d) presentation/talk (approx. 15 to 30 minutes) Language of assessment: German or English						
	Additional Information	Duration of practical course: no less than 8 weeks.						
o8-MBC-LP3-152-mo1	Practical lab course 3							
	ECTS	10	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	No courses assigned to module						
	Method of assessment	a) log (approx. 20 pages) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or d) presentation/talk (approx. 15 to 30 minutes) Language of assessment: German or English						
	Additional Information	Duration of practical course: no less than 6 weeks.						
o8-MBC-LP4-152-mo1	Practical lab course 4							
	ECTS	10	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	No courses assigned to module						
	Method of assessment	a) log (approx. 20 pages) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or d) presentation/talk (approx. 15 to 30 minutes) Language of assessment: German or English						
	Additional Information	Duration of practical course: no less than 6 weeks.						

o8-MBC-LP5-152-m01	Practical lab course 5							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	No courses assigned to module						
	Method of assessment	a) log (approx. 20 pages) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or d) presentation/talk (approx. 15 to 30 minutes) Language of assessment: German or English						
	Additional Information	Duration of practical course: no less than 3 weeks.						
o8-MBC-LP6-152-m01	Practical lab course 6							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	No courses assigned to module						
	Method of assessment	a) log (approx. 20 pages) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or d) presentation/talk (approx. 15 to 30 minutes) Language of assessment: German or English						
	Additional Information	Duration of practical course: no less than 3 weeks.						
o8-MBC-WR2-152-m01	Scientific lecturing M2							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	No courses assigned to module						
	Method of assessment	Preparing and supervising study groups: assessment to be successfully completed (type and length of assessment to be specified at the beginning of the course) Language of assessment: German or English						
o8-MBC-AWA2-152-m01	Assistance in practical courses 2							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	No courses assigned to module						
	Method of assessment	Preparing and supervising student lab courses: assessment to be successfully completed (type and length of assessment to be specified at the beginning of the course) Language of assessment: German or English						
Subfield Completeive Qualifications (20 ECTS credits)								
o8-SCM3-152-m01	Bioorganic Chemistry							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S (3)						
	Method of assessment	a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English						

o8-ACM2-152-m01	Bioanorganic Chemistry							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S (3)						
	Method of assessment	a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English						
o8-OCM-NAT-152-m01	Modern aspects of natural product Chemistry and Biological Chemistry							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S (3)						
	Method of assessment	a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English						
o8-HKM1-152-m01	Participants and allocation of places	Biochemie (Biochemistry), Master's: 20 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available.						
	Organo- and Biocatalysis							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S (3)						
o3-MS2H-G-152-m01	Method of assessment	a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English						
	Human genetics							
	ECTS	10	Duration	2 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V (2) + S (2) Module taught in: German or English						
o7-MS2BI-152-m01	Method of assessment	a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English						
	Bioinformatics							
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V (2) + S (1) Module taught in: German and/or English						
o7-MS2BI-152-m01	Method of assessment	a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English						

07-MS3S-152-m01	Systems Biology							
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V (2) + S (1) Module taught in: German and/or English						
	Method of assessment	a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English						
07-MLS1-152-m01	Methods in Life Sciences							
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V (3) Module taught in: English						
	Method of assessment	a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: English						
03-VTK-152-m01	Animal science and welfare							
	ECTS	3	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	V (2) + P (1)						
	Method of assessment	written examination (approx. 90 minutes) Language of assessment: German and/or English						
	other prerequisites	Regular attendance of practical course (as specified at the beginning of the course).						
08-MBC-WR1-152-m01	Scientific lecturing M1							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	T (o)						
	Method of assessment	Preparing and supervising study groups, wrap-up report (approx. 2 pages) Language of assessment: German and/or English						
08-MBC-AWA1-152-m01	Assistance in practical courses 1							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	T (o)						
	Method of assessment	Preparing and supervising student lab courses, wrap-up report (approx. 1 page) Language of assessment: German and/or English						
08-MBC-LIT3-152-m01	Literature seminar 3							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S (2) Module taught in: German or English						
	Method of assessment	presentation (20 to 40 minutes) Language of assessment: German and/or English						

o3-MBC-TG-161-mo1	Tumor Genetics							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (1) + S (1) Module taught in: English					
	Method of assessment		a) written examination (approx. 45 to 90 minutes) or b) log (20 to 30 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) or e) presentation (20 to 40 minutes) Language of assessment: German and/or English					
Focus - Expert Key Qualifications (project oriented) (40 ECTS credits)								
Subfield Project attendant Modules (30 ECTS credits)								
o8-MBC-FTSV1-152-mo1	Special lectures 1							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses		V (2) Module taught in: German or English					
	Method of assessment		a) written examination (approx. 45 to 90 minutes) or b) log (20 to 30 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) or e) presentation (20 to 40 minutes) Language of assessment: German and/or English					
	other prerequisites		Please consult with degree programme coordinator in advance.					
o8-MBC-FTSV2-152-mo1	Special lectures 2							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses		V (2) Module taught in: German or English					
	Method of assessment		a) written examination (approx. 45 to 90 minutes) or b) log (20 to 30 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) or e) presentation (20 to 40 minutes) Language of assessment: German and/or English					
	other prerequisites		Please consult with degree programme coordinator in advance.					

o8-MBC-FTKP1-152-mo1	Conference participation with poster presentation 1							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	R (o) Module taught in: German or English						
	Method of assessment	Poster (1 page) Language of assessment: German and/or English						
	other prerequisites	Please consult with degree programme coordinator in advance.						
o8-MBC-FTKP2-152-mo1	Conference participation with poster presentation 2							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	R (o) Module taught in: German or English						
	Method of assessment	Poster (1 page) Language of assessment: German and/or English						
	other prerequisites	Please consult with degree programme coordinator in advance.						
o8-MBC-FTKV1-152-mo1	Conference participation with lecture 1							
	ECTS	10	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	R (o) Module taught in: German or English						
	Method of assessment	presentation (20 to 40 minutes) Language of assessment: German and/or English						
	other prerequisites	Please consult with degree programme coordinator in advance.						
o8-MBC-FTKV2-152-mo1	Conference participation with lecture 2							
	ECTS	10	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	R (o) Module taught in: German or English						
	Method of assessment	presentation (20 to 40 minutes) Language of assessment: German and/or English						
	other prerequisites	Please consult with degree programme coordinator in advance.						
o8-MBC-FTEX1-152-mo1	Excursion 1							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	E (1) Module taught in: German or English						
	Method of assessment	a) written examination (approx. 45 to 90 minutes) or b) log (20 to 30 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) or e) presentation (20 to 40 minutes) Language of assessment: German and/or English						
	other prerequisites	Please consult with degree programme coordinator in advance.						

o8-MBC- FTEX2-152-m01	Excursion 2							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	E (1) Module taught in: German or English						
	Method of assessment	a) written examination (approx. 45 to 90 minutes) or b) log (20 to 30 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) or e) presentation (20 to 40 minutes) Language of assessment: German and/or English						
	other prerequisites	Please consult with degree programme coordinator in advance.						
o8-MBC-FT- SE1-152-m01	Seminar 1							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	S (2) Module taught in: German or English						
	Method of assessment	a) written examination (approx. 45 to 90 minutes) or b) log (20 to 30 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) or e) presentation (20 to 40 minutes) Language of assessment: German and/or English						
	other prerequisites	Please consult with degree programme coordinator in advance.						
o8-MBC-FT- SE2-152-m01	Seminar 2							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	S (2) Module taught in: German or English						
	Method of assessment	a) written examination (approx. 45 to 90 minutes) or b) log (20 to 30 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) or e) presentation (20 to 40 minutes) Language of assessment: German and/or English						
	other prerequisites	Please consult with degree programme coordinator in advance.						

o8-MBC-FT-SE3-152-m01	Seminar 3							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	S (2) Module taught in: German or English						
	Method of assessment	a) written examination (approx. 45 to 90 minutes) or b) log (20 to 30 pages) or c) oral examination of one candidate each (20 to 30 minutes) or d) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) or e) presentation (20 to 40 minutes) Language of assessment: German and/or English						
	other prerequisites	Please consult with degree programme coordinator in advance.						
o8-MBC-FTWS1-152-m01	Workshop 1							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	R (o) Module taught in: German or English						
	Method of assessment	Wrap-up report (approx. 2 pages) Language of assessment: German and/or English						
	other prerequisites	Please consult with degree programme coordinator in advance.						
o8-MBC-FTWS2-152-m01	Workshop 2							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	R (o) Module taught in: German or English						
	Method of assessment	Wrap-up report (approx. 2 pages) Language of assessment: German and/or English						
	other prerequisites	Please consult with degree programme coordinator in advance.						
o8-MBC-FTWS3-152-m01	Workshop 3							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	R (o) Module taught in: German or English						
	Method of assessment	Wrap-up report (approx. 2 pages) Language of assessment: German and/or English						
	other prerequisites	Please consult with degree programme coordinator in advance.						
o8-MBC-FT-PB1-152-m01	Assistance in practical courses 1							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	T (o) Module taught in: German or English						
	Method of assessment	Preparing and supervising student lab courses, wrap-up report (approx. 1 page) Language of assessment: German and/or English						

o8-MBC-FT-PB2-152-m01	Assistance in practical courses 2							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses		T (o) Module taught in: German or English					
	Method of assessment		Preparing and supervising student lab courses, wrap-up report (approx. 1 page) Language of assessment: German and/or English					
Subfield Compleitive Qualifications (10 ECTS credits)								
o8-SCM3-152-m01	Bioorganic Chemistry							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		S (3)					
	Method of assessment		a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English					
o8-ACM2-152-m01	Bioanorganic Chemistry							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		S (3)					
	Method of assessment		a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English					
o8-OCM-NAT-152-m01	Modern aspects of natural product Chemstry and Biological Chemistry							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		S (3)					
	Method of assessment		a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English					
	Participants and allo- cation of places		Biochemie (Biochemistry), Master's: 20 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available.					
o8-HKM1-152-m01	Organo- and Biocatalysis							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		S (3)					
	Method of assessment		a) written examination (approx. 45 to 90 minutes) or b) oral examination of one candidate each (20 to 30 minutes) or c) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) Language of assessment: German and/or English					

07-MS2BI-152-m01	Bioinformatics							
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (2) + S (1) Module taught in: German and/or English					
	Method of assessment		a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English					
07-MS3S-152-m01	Systems Biology							
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (2) + S (1) Module taught in: German and/or English					
	Method of assessment		a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English					
07-MLS1-152-m01	Methods in Life Sciences							
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		V (3) Module taught in: English					
	Method of assessment		a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Students will be informed about the method, length and scope of the assessment prior to the course. Language of assessment: English					
03-VTK-152-m01	Animal science and welfare							
	ECTS	3	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses		V (2) + P (1)					
	Method of assessment		written examination (approx. 90 minutes) Language of assessment: German and/or English					
08-MBC-WR1-152-m01	other prerequisites		Regular attendance of practical course (as specified at the beginning of the course).					
	Scientific lecturing M1							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses		T (0)					
Method of assessment		Preparing and supervising study groups, wrap-up report (approx. 2 pages) Language of assessment: German and/or English						

o8-MBC-AWA1-152-m01	Assistance in practical courses 1							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses		T (o)					
	Method of assessment		Preparing and supervising student lab courses, wrap-up report (approx. 1 page) Language of assessment: German and/or English					
o8-MBC-LIT3-152-m01	Literature seminar 3							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		S (2) Module taught in: German or English					
	Method of assessment		presentation (20 to 40 minutes) Language of assessment: German and/or English					
Thesis Area (30 ECTS credits)								
o8-MBC-KOLL-152-m01	Final Colloquium							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		K (o)					
	Method of assessment		final colloquium (approx. 45 minutes) Language of assessment: German and/or English					
o8-MBC-MA-152-m01	Master-Thesis							
	ECTS	25	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		No courses assigned to module					
	Method of assessment		Master's thesis (approx. 60 pages) Language of assessment: German or English					
	Additional Information		Time to complete: 6 months.					