

## 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: 2015

Examination regulations version: 2015

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)):

**13-Jul-2015 (2015-20) except for mandatory elective 03-MBC-TG-161 added at two places in Fast Track procedure at a later time**

**15-Mar-2017 (2017-14)**

**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	<b>Module title</b>						
	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)**

Students must select one focus; all modules of the selected focus must be taken.

**Focus - Molecular Life-Sciences (50 ECTS credits)****Subfield - Structural and Functional Biochemistry (30 ECTS credits)**

o8-MBC-MSP-152-m01	<b>Mass-Spectrometry and Proteomics</b>							
	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-MBC-GEG-152-m01	<b>Genomes and epigenetics</b>							
	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						
	Participants and allocation of places							
o8-MBC-LIT1-152-m01	<b>Literature seminar 1</b>							
	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						
	Participants and allocation of places							

o8-MBC-MK-152-m01	<b>Macromolecular Crystallography</b>							
	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-PQK-152-m01	<b>Protein quality control</b>							
	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-RNP-152-m01	<b>Structure and function of RNA-protein complexes</b>							
	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-MCM3-152-mo1	<b>Drug design</b>							
	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 allocation of places	20 places. 4 places for students of the Master's degree programme Chemie (Chemistry): Places will be allocated according to the same number of subject semesters; students who have chosen Medizinische Chemie (Medicinal Chemistry) as their focus will be given preferential consideration; among applicants with the same number of subject semesters, places will be allocated by lot.; 6 places for students of the Master's degree programme Biochemie (Biochemistry): Places will be allocated according to the number of subject semesters; among applicants with the same number of subject semesters, places will be allocated by lot; a waiting list will be maintained and places re-allocated by lot as they become available.							
o8-MBC-RNAW-152-mo1	<b>RNA worlds</b>							
	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-mo1	<b>Life cycle of proteins</b>							
	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-GST-152-mo1	<b>Genome stability</b>							
	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						
o7-MS2B-T-152-mo1	<b>Biophysics and Molecular Biotechnology</b>							
	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-FPV-232-mo1	<b>Functional Proteomics: Deciphering Protein Worlds</b>							
	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	<b>The Functional Proteome: Organization, Modulation and Dynamics</b>							
	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.							
<b>Subfield - Molecular and Medical Cell Biology (20 ECTS credits)</b>								
o3-MS2H-G-152-mo1	<b>Human genetics</b>							
	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						
o3-98-PBG-152-mo1	<b>Bacterial genetics - Infectiology</b>							
	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-MS2IM1-152-m01	<b>Immunology 1</b>							
	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	<b>Immunology 2</b>							
	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	<b>Virology 1</b>							
	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-mo1	<b>Virology 2</b>							
	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.						
07-MS2M1-152-mo1	<b>Microbiology 1</b>							
	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						
	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.						
07-MS2M2-152-mo1	<b>Microbiology 2</b>							
	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						
	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.						
08-MBC-LIT2-152-mo1	<b>Literature seminar 2</b>							
	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						

o8-PH-KAC-152-mo1	<b>Clinical-analytical Chemistry</b>							
	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						
o8-PH-KACP-152-mo1	<b>Practical course of clinical-analytical Chemistry</b>							
	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						
o3-98-MV-KN-152-mo1	<b>Clinical Neurobiology</b>							
	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						
o3-98-MVKB-152-mo1	<b>Cardiovascular Biology</b>							
	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	<b>Molecular Oncology</b>							
	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- SZ-152-m01	<b>Stem Cell Biology</b>							
	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-MVTF-152- m01	<b>Tissue Engineering / Functional Materials</b>							
	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	<b>Clinical Oncology</b>							
	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-MBC-TG-161-m01	<b>Tumor Genetics</b>							
	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						
<b>Focus - Molecular Oncology (50 ECTS credits)</b>								
<b>Subfield - Tumor Biology (35 ECTS credits)</b>								
03-ONC-LAB1-152-m01	<b>Lab rotation Oncology</b>							
	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.						

03-ONC-SEM1-152-m01	<b>Oncology Seminar 1</b>							
	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	<b>Oncology Seminar 2</b>							
	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	<b>Experimental Tumor Biology</b>							
	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.							

03-98-MV-MO-152-m01	<b>Molecular Oncology</b>							
	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	<b>Clinical Oncology</b>							
	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						
<b>Subfield - Structural and Functional Biochemistry (15 ECTS credits)</b>								
08-MBC-MSP-152-m01	<b>Mass-Spectrometry and Proteomics</b>							
	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-MBC-GEG-152-mo1	<b>Genomes and epigenetics</b>							
	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-LIT1-152-mo1	<b>Literature seminar 1</b>							
	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							
o8-MBC-MK-152-mo1	<b>Macromolecular Crystallography</b>							
	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-PQK-152-mo1	<b>Protein quality control</b>							
	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-RNP-152-mo1	<b>Structure and function of RNA-protein complexes</b>							
	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-MCM3-152-mo1	<b>Drug design</b>							
	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 allocation of places	20 places. 4 places for students of the Master's degree programme Chemie (Chemistry): Places will be allocated according to the same number of subject semesters; students who have chosen Medizinische Chemie (Medicinal Chemistry) as their focus will be given preferential consideration; among applicants with the same number of subject semesters, places will be allocated by lot.; 6 places for students of the Master's degree programme Biochemie (Biochemistry): Places will be allocated according to the number of subject semesters; among applicants with the same number of subject semesters, places will be allocated by lot; a waiting list will be maintained and places re-allocated by lot as they become available.						
o8-MBC-RNAW-152-mo1	<b>RNA worlds</b>							
	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-mo1	<b>Life cycle of proteins</b>								
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses	V (1) + S (1) Module taught in: German or English							
o8-MBC-GST-152-mo1	<b>Genome stability</b>								
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses	V (1) + S (1) Module taught in: German or English							
o7-MS2B-T-152-mo1	<b>Biophysics and Molecular Biotechnology</b>								
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses	V (2) + S (1) Module taught in: English							
o8-MBC-FPV-232-mo1	<b>Functional Proteomics: Deciphering Protein Worlds</b>								
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate	
	Courses	V (1) + S (1) Module taught in: German or English							
	<b>Method of assessment</b>								
	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								
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o8-MBC-FPP-232-m01	<b>The Functional Proteome: Organization, Modulation and Dynamics</b>							
	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.							
<b>Compulsory Electives 2 (40 ECTS credits)</b> Students must select one focus; all modules of the selected focus must be taken.								
<b>Focus Expert Key Qualifications (practice oriented) (40 ECTS credits)</b>								
<b>Subfield Research oriented Projects (30 ECTS credits)</b>								
o8-MBC-AWA2-152-m01	<b>Assistance in practical courses 2</b>							
	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							
o8-MBC-LP1-152-m01	<b>Practical lab course 1</b>							
	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	<b>Practical lab course 2</b>							
	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	<b>Practical lab course 3</b>							
	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	<b>Practical lab course 4</b>							
	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-mo1	<b>Practical lab course 5</b>							
	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	<b>Practical lab course 6</b>							
	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	<b>Scientific lecturing M2</b>							
	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						
	Additional Information							
o8-MBC-AP1-152-mo1	<b>Practical course - abroad 1</b>							
	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-mo1	<b>Practical course - abroad 2</b>							
	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	<b>Practical course - external 1</b>							
	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	<b>Practical course - external 2</b>							
	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.						
<b>Subfield Completeive Qualifications (10 ECTS credits)</b>								
o3-VTK-152-m01	<b>Animal science and welfare</b>							
	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).						
o8-ACM2-152-m01	<b>Bioanorganic Chemistry</b>							
	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	<b>Organo- and Biocatalysis</b>							
	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-MBC-AWA1-152-m01	<b>Assistance in practical courses 1</b>							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	T (0)						
	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	<b>Literature seminar 3</b>							
	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						
o8-MBC-WR1-152-m01	<b>Scientific lecturing M1</b>							
	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-OCM-NAT-152-m01	<b>Modern aspects of natural product Chemistry and Biological Chemistry</b>							
	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-SCM3-152-m01	<b>Bioorganic Chemistry</b>							
	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	<b>Bioinformatics</b>							
	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	<b>Systems Biology</b>							
	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	<b>Methods in Life Sciences</b>							
	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						
<b>Focus - Expert Key Qualifications (40 ECTS credits)</b>								
<b>Subfield Research oriented Projects (20 ECTS credits)</b>								
o8-MBC- AWA2-152-m01	<b>Assistance in practical courses 2</b>							
	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						

o8-MBC-LP1-152-mo1	<b>Practical lab course 1</b>							
	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	<b>Practical lab course 2</b>							
	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	<b>Practical lab course 3</b>							
	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	<b>Practical lab course 4</b>							
	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	<b>Practical lab course 5</b>							
	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	<b>Practical lab course 6</b>							
	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	<b>Scientific lecturing M2</b>							
	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						
	Additional Information							
o8-MBC-AP1-152-m01	<b>Practical course - abroad 1</b>							
	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-mo1	<b>Practical course - abroad 2</b>							
	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-mo1	<b>Practical course - external 1</b>							
	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-mo1	<b>Practical course - external 2</b>							
	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.						
<b>Subfield Completeive Qualifications (20 ECTS credits)</b>								
o3-MS2H-G-152-mo1	<b>Human genetics</b>							
	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						

o3-VTK-152-mo1	<b>Animal science and welfare</b>							
	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).						
o8-ACM2-152-mo1	<b>Bioinorganic Chemistry</b>							
	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-mo1	<b>Organo- and Biocatalysis</b>							
	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-MBC- AWA1-152-mo1	<b>Assistance in practical courses 1</b>							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	T (0)						
	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- mo1	<b>Literature seminar 3</b>							
	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						
o8-MBC-WR1-152- mo1	<b>Scientific lecturing M1</b>							
	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-OCM-NAT-152-mo1	<b>Modern aspects of natural product Chemistry and Biological Chemistry</b>							
	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-SCM3-152-mo1	<b>Bioorganic Chemistry</b>							
	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						
o3-MBC-TG-161-mo1	<b>Tumor Genetics</b>							
	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						
o7-MS2BI-152-mo1	<b>Bioinformatics</b>							
	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	<b>Systems Biology</b>							
	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	<b>Methods in Life Sciences</b>							
	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						
<b>Focus - Expert Key Qualifications (project oriented) (40 ECTS credits)</b>								
<b>Subfield Project attendant Modules (30 ECTS credits)</b>								
o8-MBC- FTEX1-152-m01	<b>Excursion 1</b>							
	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	<b>Excursion 2</b>							
	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- FTKP1-152-m01	<b>Conference participation with poster presentation 1</b>							
	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-m01	<b>Conference participation with poster presentation 2</b>							
	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-m01	<b>Conference participation with lecture 1</b>							
	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-m01	<b>Conference participation with lecture 2</b>							
	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-FT-PB1-152-mo1	<b>Assistance in practical courses 1</b>							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	T (0) 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-mo1	<b>Assistance in practical courses 2</b>							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	T (0) 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-SE1-152-mo1	<b>Seminar 1</b>							
	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-mo1	<b>Seminar 2</b>							
	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-mo1	<b>Seminar 3</b>							
	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-FTSV1-152-mo1	<b>Special lectures 1</b>							
	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	<b>Special lectures 2</b>							
	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-FTWS1-152-mo1	<b>Workshop 1</b>							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	R (0) 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	<b>Workshop 2</b>							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	R (0) 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	<b>Workshop 3</b>							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	R (0) 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.						
<b>Subfield Complete Qualifications (10 ECTS credits)</b>								
o3-VTK-152-m01	<b>Animal science and welfare</b>							
	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).						
o8-ACM2-152-m01	<b>Bioinorganic Chemistry</b>							
	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	<b>Organo- and Biocatalysis</b>							
	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-MBC-AWA1-152-m01	<b>Assistance in practical courses 1</b>							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	T (0)						
	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	<b>Literature seminar 3</b>							
	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						
o8-MBC-WR1-152-m01	<b>Scientific lecturing M1</b>							
	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-OCM-NAT-152-m01	<b>Modern aspects of natural product Chemistry and Biological Chemistry</b>							
	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-SCM3-152-m01	<b>Bioorganic Chemistry</b>							
	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	<b>Bioinformatics</b>							
	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	<b>Systems Biology</b>							
	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	<b>Methods in Life Sciences</b>							
	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						
<b>Thesis Area (30 ECTS credits)</b>								
08-MBC-KOLL-152-m01	<b>Final Colloquium</b>							
	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						
08-MBC-MA-152-m01	<b>Master-Thesis</b>							
	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.						