

Annex SFB

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

Responsible: Faculty of Chemistry and Pharmacy

Examination regulations version: 2013

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:

ASPO2009

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

29-Jul-2013 (2013-83)

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 (90 ECTS credits)							
Compulsory Electives Focuses (75 ECTS credits)							
Students must choose three focuses with 25 ECTS credits each.							
Inorganic Chemistry (25 ECTS credits)							
Compulsory Courses (20 ECTS credits)							
o8-ACM1-132-m01	Advanced Inorganic Chemistry						
	ECTS	10	Duration	2 semester	Method of grading	numerical grade	Modul level graduate
	Courses	S + S (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	a) 1 to 2 written examinations (1 written examination: approx. 120 minutes; 2 written examinations: approx. 90 minutes each) or b) oral examination of one candidate each (30 minutes) or c) oral examination in groups (groups of 2, 45 minutes) Language of assessment: German or English					
o8-ACPM-132-m01	Inorganic Chemistry practical course for advanced						
	ECTS	10	Duration	1 semester	Method of grading	(not) successfully completed	Modul level graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	practical work with lab report (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German or English					
Additional Information	Additional information on module duration: block placement with a duration of a minimum of 40 working days.						
Compulsory Electives (5 ECTS credits)							
o8-ACM2-102-m01	Bioinorganic Chemistry						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the beginning of the course. Language of assessment: German or English					
o8-ACM3-102-m01	Solid state chemistry and inorganic materials						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the beginning of the course. Language of assessment: German or English					

o8-HKM2-102-m01	Advanced organometallic chemistry and its application in homogeneous catalysis							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the beginning of the course. Language of assessment: German or English						
Organic Chemistry (25 ECTS credits)								
Compulsory Courses (15 ECTS credits)								
o8-OCM-NMRMS-102-m01	Advanced NMR- and Mass Spectrometry							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes) Language of assessment: German or English						
o8-OCM-SYNT-132-m01	Modern Synthetic Methods							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) 1 to 2 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German or English						
	other prerequisites	Admission prerequisite to assessment: successful completion of exercises in the respective classes (usually 70% of exercises -- 10 to 15 hours -- to be successfully completed) as well as regular attendance of exercises (a maximum of 2 incidents of absence).						
o8-OCM-AKP1-122-m01	Advanced Research Project							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	talk (approx. 15 minutes) and log (approx. 15 to 20 pages) Language of assessment: German or English						

Compulsory Electives (10 ECTS credits)							
o8-OCM-NAT-102-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 (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the beginning of the course. Language of assessment: German or English					
Participants and allocation of places	Chemistry Master's: no restrictions. Biochemistry Master's: 20 places. Places will be allocated by lot.						
o8-OCM-FM-102-m01	Organic Functional Materials						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the beginning of the course. Language of assessment: German or English					
o8-HKM1-102-m01	Organo- and Biocatalysis						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the beginning of the course. Language of assessment: German or English					
o8-SCM1-102-m01	Supramolecular Chemistry (Basics)						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	written examination (approx. 90 minutes) or oral examination of one candidate each (approx. 20 minutes) Language of assessment: German or English					
o8-SCM3-102-m01	Bioorganic Chemistry						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the beginning of the course. Language of assessment: German or English					
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o8-TCM2-132-m01	Computational Chemistry							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (approx. 90 minutes) Language of assessment: German or English						
other prerequisites	Admission prerequisite to assessment: successful completion of exercises in the respective classes (usually 70% of exercises -- 10 to 15 hours -- to be successfully completed) as well as regular attendance of exercises (a maximum of 2 incidents of absence).							
Physical Chemistry (25 ECTS credits)								
Compulsory Courses (10 ECTS credits)								
o8-PCM1a-132-m01	Laser Spectroscopy							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
Method of assessment	written examination (90 minutes) or oral examination (20 minutes) Language of assessment: German or English							
o8-PCM1b-132-m01	Advanced Physical Chemistry (Lab)							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	Vortestate (pre-experiment exams) and Nachtestate (post-experiment exams) (approx. 15 minutes) and log (approx. 15 pages) Language of assessment: German or English						
Additional Information	Additional information on module duration: block placement with a duration of a minimum of 20 working days.							
Compulsory Electives (15 ECTS credits)								
o8-PCM4-132-m01	Ultrafast spectroscopy and quantum-control							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) written examination (90 minutes) or b) oral examination of one candidate each (20 minutes) or c) talk (30 minutes) Language of assessment: German or English						
Modules successfully completed	o8-PCM1a, o8-PCM1b							
o8-PCM2-102-m01	Chemical Dynamics							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
Method of assessment	written examination (90 minutes) or oral examination of one candidate each (20 minutes) or talk (30 minutes) Language of assessment: German or English							

o8-PCM3-102-m01	Nanoscale Materials							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (90 minutes) or oral examination of one candidate each (20 minutes) or talk (30 minutes) Language of assessment: German or English						
o8-PCM5-102-m01	Physical chemistry of supramolecular assemblies							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (90 minutes) and/or oral examination of one candidate each (20 minutes) and/or talk (30 minutes) Language of assessment: German or English						
o8-TCM2-132-m01	Computational Chemistry							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (approx. 90 minutes) Language of assessment: German or English						
	other prerequisites	Admission prerequisite to assessment: successful completion of exercises in the respective classes (usually 70% of exercises -- 10 to 15 hours -- to be successfully completed) as well as regular attendance of exercises (a maximum of 2 incidents of absence).						
o8-TCM1-132-m01	Theoretical Chemistry (Basics)							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (approx. 90 minutes) Language of assessment: German or English						
	other prerequisites	Admission prerequisite to assessment: successful completion of exercises in the respective classes (usually 70% of exercises -- 10 to 15 hours -- to be successfully completed) as well as regular attendance of exercises (a maximum of 2 incidents of absence).						
o8-PCM6-132-m01	Physical Chemistry (Advanced Lab)							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	presentation (approx. 20 minutes) Language of assessment: German or English						
	Modules successfully completed	o8-PCM1						
	Additional Information	Additional information on module duration: block placement with a duration of a minimum of 20 working days.						

Biochemistry (25 ECTS credits)							
Compulsory Courses (15 ECTS credits)							
o8-BC-MOLP-111-mo1	Molecular Biology Lab						
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level undergraduate
	Courses	Ü (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	a) written examination (approx. 60 to 90 minutes) or b) log (approx. 20 pages) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or d) presentation (approx. 30 minutes). Students will be informed about the method and length of the assessment prior to the course. Assessment offered: once a year, winter semester Language of assessment: German or English					
	Modules successfully completed	o8-BC (module component o8-BC-1 only)					
Participants and allocation of places	Biochemie (Biochemistry) Bachelor's: 24 places. Chemie (Chemistry) Master's: 6 places. Selection process Biochemie (Biochemistry) Bachelor's: Should the number of applications exceed the number of available places, places will be allocated according to the following quotas: Quota 1 (two thirds of places): current average grade of successfully completed modules; among applicants with the same average grade, places will be allocated by lot. Quota 2 (one third of places) number of subject semesters of the respective applicant; among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated as they become available. Selection process Chemie (Chemistry) Master's: Should the number of applications exceed the number of available places, places will be allocated according to the following quotas: Quota 1 (two thirds of places): grade of module o8-BC; among applicants with the same grade, places will be allocated by lot. Quota 2 (one third of places) number of subject semesters of the respective applicant; among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated as they become available.						
o8-BC-MOLM-132-mo1	Molecular Biology						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level undergraduate
	Courses	V + Ü (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	a) written examination (approx. 60 to 90 minutes) or b) log (approx. 20 pages) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or d) presentation (approx. 30 minutes). Students will be informed about the method and length of the assessment prior to the course. Language of assessment: German or English					

Compulsory Electives (10 ECTS credits)							
o8-BCP-092-m01	Biochemistry Lab						
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level undergraduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	pre/post-experiment examination talks (Vortestate and Nachtestate, approx. 15 minutes each), practical work (log, approx. 5 to 10 pages) Assessment offered: once a year, summer semester					
	Modules successfully completed	o8-BC					
Participants and allocation of places	Number of places: 24. Should the number of applications exceed the number of available places, places will be allocated in a standardised procedure among all applicants irrespective of their subjects according to the following quotas: Quota 1 (80% of places): grade achieved in module o8-BC; among applicants with the same grade, places will be allocated by lot. Quota 2 (20% of places): number of subject semesters of the respective applicant; among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated as they become available.						
o8-ACM2-102-m01	Bioinorganic Chemistry						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the beginning of the course. Language of assessment: German or English					
	Participants and allocation of places						
o8-OCM-NAT-102-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 (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the beginning of the course. Language of assessment: German or English					
	Participants and allocation of places	Chemistry Master's: no restrictions. Biochemistry Master's: 20 places. Places will be allocated by lot.					
o8-HKM1-102-m01	Organo- and Biocatalysis						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the beginning of the course. Language of assessment: German or English					

o8-PH-KAC-092-m01	Clinical and Analytical Chemistry							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	V (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (120 minutes)						
o8-PH-KACP-092-m01	Clinical and Analytical Chemistry (practical course)							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	examination talks (Testate, approx. 15 minutes each), log (approx. 5 to 10 pages)						
o8-BC-132-m01	Principles of Biochemistry							
	ECTS	6	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	This module comprises 2 module components. Information on courses will be listed separately for each module component. <ul style="list-style-type: none"> o8-BC-1-132: V + Ü (no information on SWS (weekly contact hours) and course language available) o8-BC-2-132: V + Ü (no information on SWS (weekly contact hours) and course language available) 						
	Method of assessment	Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments. <p>Assessment in module component o8-BC-1-132: Principles of Biochemistry 1 Principles of Biochemistry 1</p> <ul style="list-style-type: none"> 3 ECTS, Method of grading: numerical grade written examination (approx. 60 to 90 minutes) <p>Assessment in module component o8-BC-2-132: Principles of Biochemistry 2 Principles of Biochemistry 2</p> <ul style="list-style-type: none"> 3 ECTS, Method of grading: numerical grade written examination (approx. 60 to 90 minutes) 						
o8-BC-VPMM-132-m01	Practical course Molecular Machines for advanced students							
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German or English						
	Modules successfully completed	o8-BC, o8-BCP						
	Additional Information	Additional information on module duration: block placement with a duration of a minimum of 40 working days.						
o8-BC-VPPD-132-m01	Practical course Protein Degradation in Eukaryotes for advanced students							
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German or English						
	Modules successfully completed	o8-BC, o8-BCP						
	Additional Information	Additional information on module duration: block placement with a duration of a minimum of 40 working days.						

o8-BC-VPRB-132-mo1	Practical course RNA Biochemistry for advanced students							
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German or English						
	Modules successfully completed	o8-BC, o8-BCP						
Additional Information	Additional information on module duration: block placement with a duration of a minimum of 40 working days.							
o8-BC-VPSB-132-mo1	Practical course Structural Biology for advanced students							
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German or English						
	Modules successfully completed	o8-BC, o8-BCP						
Additional Information	Additional information on module duration: block placement with a duration of a minimum of 40 working days.							
o8-MCM3-132-mo1	Principles of drug design							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	presentation with discussion (approx. 30 minutes) Language of assessment: German or English						
Functional Materials (25 ECTS credits)								
Compulsory Courses (20 ECTS credits)								
o8-OCM-FM-102-mo1	Organic Functional Materials							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the beginning of the course. Language of assessment: German or English						
o8-FMM-MP-102-mo1	Lab Course Materials Science							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	Vortestate (pre-experiment exams) and Nachtestate (post-experiment exams) (15 minutes), assessment of practical performance, log (5 to 10 pages) Language of assessment: German or English						

o8-FMM-PA-102-mo1	Project Work							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	talk (approx. 15 minutes) and log (approx. 15 pages) Language of assessment: German or English						
o8-FS1-122-mo1	Material Science 1 (basic introduction)							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German or English						
Compulsory Electives (5 ECTS credits)								
o8-ACM3-102-mo1	Solid state chemistry and inorganic materials							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the beginning of the course. Language of assessment: German or English						
o8-SCM1-102-mo1	Supramolecular Chemistry (Basics)							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (approx. 90 minutes) or oral examination of one candidate each (approx. 20 minutes) Language of assessment: German or English						
o8-PCM3-102-mo1	Nanoscale Materials							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (90 minutes) or oral examination of one candidate each (20 minutes) or talk (30 minutes) Language of assessment: German or English						
o3-PM2-122-mo1	Polymers II							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) talk (30 minutes) Language of assessment: German or English						

o8-NT-122-m01	Chemically and bio-inspired Nanotechnology for Material Synthesis							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	This module comprises 2 module components. Information on courses will be listed separately for each module component. <ul style="list-style-type: none"> o8-NT-1-122: V (no information on SWS (weekly contact hours) and course language available) o8-NT-2-122: V (no information on SWS (weekly contact hours) and course language available) 						
Method of assessment	Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments. <p>Assessment in module component o8-NT-1-122: Sol-Gel Chemistry 1: Fundamentals</p> <ul style="list-style-type: none"> 2 ECTS, Method of grading: numerical grade a) written examination (approx. 45 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) <p>Assessment in module component o8-NT-2-122: From Biomineralisation to biologically inspired Materials Synthesis</p> <ul style="list-style-type: none"> 3 ECTS, Method of grading: numerical grade a) written examination (approx. 45 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) 							
o3-FU-PM1-122-m01	Polymer Chemistry							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	This module comprises 2 module components. Information on courses will be listed separately for each module component. <ul style="list-style-type: none"> o3-FU-PM1-1-122: V (no information on SWS (weekly contact hours) and course language available) o3-FU-PM1-2-122: P (no information on SWS (weekly contact hours) and course language available) 						
Method of assessment	Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments. <p>Assessment in module component o3-FU-PM1-1-122: Polymer Chemistry (Lecture)</p> <ul style="list-style-type: none"> 3 ECTS, Method of grading: numerical grade a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English if agreed upon with the examiner <p>Assessment in module component o3-FU-PM1-2-122: Polymer Chemistry (Practical course)</p> <ul style="list-style-type: none"> 2 ECTS, Method of grading: (not) successfully completed Vortestate (pre-experiment exams, approx. 15 minutes each) and logs (approx. 5 pages each) Assessment offered: once a year, summer semester Language of assessment: German, English if agreed upon with the examiner 							
o8-FS2-122-m01	Material Science 2 (the material groups)							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V + Ü (no information on SWS (weekly contact hours) and course language available)						
Method of assessment	a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German or English							

o8-FMM-CT-132-mo1	Molecular Materials							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	presentation (approx. 30 minutes) and examination: a) 1 to 2 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes total)						
other prerequisites	Admission prerequisite to assessment: successful completion of exercises in the respective classes (usually 70% of exercises -- 10 to 15 hours -- to be successfully completed) as well as regular attendance of exercises (a maximum of 2 incidents of absence).							
Homogeneous Catalysis (25 ECTS credits)								
Compulsory Courses (20 ECTS credits)								
o8-HKM2-102-mo1	Advanced organometallic chemistry and its application in homogeneous catalysis							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the beginning of the course. Language of assessment: German or English						
o8-HKM1-102-mo1	Organo- and Biocatalysis							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the beginning of the course. Language of assessment: German or English						
o8-HKM3AC-132-mo1	Practical course Homogeneous catalysis in Inorganic Chemistry							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	practical work with lab report (approx. 10 pages) and talk (approx. 15 minutes) Language of assessment: German or English						
	Additional Information	Additional information on module duration: block placement with a duration of a minimum of 20 working days.						
o8-HKM3OC-132-mo1	Practical course Homogeneous catalysis in Organic Chemistry							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	practical work with lab report (approx. 10 pages) and talk (approx. 15 minutes) Language of assessment: German or English						
	Additional Information	Additional information on module duration: block placement with a duration of a minimum of 20 working days.						
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Compulsory Electives (5 ECTS credits)							
o8-PCM2-102-m01	Chemical Dynamics						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	written examination (90 minutes) or oral examination of one candidate each (20 minutes) or talk (30 minutes) Language of assessment: German or English					
o8-HKM4-102-m01	Advanced transition metal chemistry						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the beginning of the course. Language of assessment: German or English					
o3-FU-PM1-122-m01	Polymer Chemistry						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level undergraduate
	Courses	This module comprises 2 module components. Information on courses will be listed separately for each module component. <ul style="list-style-type: none"> o3-FU-PM1-1-122: V (no information on SWS (weekly contact hours) and course language available) o3-FU-PM1-2-122: P (no information on SWS (weekly contact hours) and course language available) 					
	Method of assessment	Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments. <p>Assessment in module component o3-FU-PM1-1-122: Polymer Chemistry (Lecture)</p> <ul style="list-style-type: none"> 3 ECTS, Method of grading: numerical grade a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English if agreed upon with the examiner <p>Assessment in module component o3-FU-PM1-2-122: Polymer Chemistry (Practical course)</p> <ul style="list-style-type: none"> 2 ECTS, Method of grading: (not) successfully completed Vortestate (pre-experiment exams, approx. 15 minutes each) and logs (approx. 5 pages each) Assessment offered: once a year, summer semester Language of assessment: German, English if agreed upon with the examiner 					

o8-OCM-SYNT-132-mo1	Modern Synthetic Methods							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) 1 to 2 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German or English						
other prerequisites	Admission prerequisite to assessment: successful completion of exercises in the respective classes (usually 70% of exercises -- 10 to 15 hours -- to be successfully completed) as well as regular attendance of exercises (a maximum of 2 incidents of absence).							
o8-TCM2-132-mo1	Computational Chemistry							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (approx. 90 minutes) Language of assessment: German or English						
other prerequisites	Admission prerequisite to assessment: successful completion of exercises in the respective classes (usually 70% of exercises -- 10 to 15 hours -- to be successfully completed) as well as regular attendance of exercises (a maximum of 2 incidents of absence).							
Medicinal Chemistry (25 ECTS credits)								
Compulsory Courses (25 ECTS credits)								
o8-MCM1-102-mo1	Practical course medicinal chemistry							
	ECTS	10	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	Vortestate (pre-experiment exams) and Nachtestate (post-experiment exams) (approx. 20 minutes), assessment of practical performance, written report (approx. 30 to 50 pages) Language of assessment: German or English						
o8-MCM3-132-mo1	Principles of drug design							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	presentation with discussion (approx. 30 minutes) Language of assessment: German or English						
o8-MCM2-132-mo1	Pharmaceutical/Medicinal Chemistry							
	ECTS	10	Duration	3 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V + V + V (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	3 oral examinations of one candidate each (approx. 30 minutes each) Language of assessment: German or English						

Supramolecular Chemistry (25 ECTS credits)							
Compulsory Courses (10 ECTS credits)							
o8-SCM1-102-m01	Supramolecular Chemistry (Basics)						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	written examination (approx. 90 minutes) or oral examination of one candidate each (approx. 20 minutes) Language of assessment: German or English					
o8-SCM2-102-m01	Supramolecular Chemistry (Practical Course)						
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	practical work, logs (approx. 5 pages each) Language of assessment: German or English					
Compulsory Electives (15 ECTS credits)							
No less than one of the two modules o8-SCM3 or o8-PCM5 must be completed in the focus.							
o8-ACM2-102-m01	Bioinorganic Chemistry						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the beginning of the course. Language of assessment: German or English					
o8-OCM-FM-102-m01	Organic Functional Materials						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the beginning of the course. Language of assessment: German or English					
o8-SCM3-102-m01	Bioorganic Chemistry						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the beginning of the course. Language of assessment: German or English					

o8-PCM3-102-m01	Nanoscale Materials							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (90 minutes) or oral examination of one candidate each (20 minutes) or talk (30 minutes) Language of assessment: German or English						
o8-PCM5-102-m01	Physical chemistry of supramolecular assemblies							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (90 minutes) and/or oral examination of one candidate each (20 minutes) and/or talk (30 minutes) Language of assessment: German or English						
o8-TCM2-132-m01	Computational Chemistry							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (approx. 90 minutes) Language of assessment: German or English						
	other prerequisites	Admission prerequisite to assessment: successful completion of exercises in the respective classes (usually 70% of exercises -- 10 to 15 hours -- to be successfully completed) as well as regular attendance of exercises (a maximum of 2 incidents of absence).						
o8-MCM3-132-m01	Principles of drug design							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	presentation with discussion (approx. 30 minutes) Language of assessment: German or English						
Theoretical Chemistry (25 ECTS credits)								
Compulsory Courses (10 ECTS credits)								
o8-TCM3-102-m01	Programming in Theoretical Chemistry							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	completion and discussion of approx. 5 programming exercises as well as talk (approx. 45 minutes) Language of assessment: German or English						
o8-TCM1-132-m01	Theoretical Chemistry (Basics)							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (approx. 90 minutes) Language of assessment: German or English						
	other prerequisites	Admission prerequisite to assessment: successful completion of exercises in the respective classes (usually 70% of exercises -- 10 to 15 hours -- to be successfully completed) as well as regular attendance of exercises (a maximum of 2 incidents of absence).						
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Compulsory Electives (15 ECTS credits)							
Two of the three modules o8-TCAP1, o8-TCAP2 and o8-TCAP3 must be taken.							
o8-TCM2-132-mo1	Computational Chemistry						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	written examination (approx. 90 minutes) Language of assessment: German or English					
	other prerequisites	Admission prerequisite to assessment: successful completion of exercises in the respective classes (usually 70% of exercises -- 10 to 15 hours -- to be successfully completed) as well as regular attendance of exercises (a maximum of 2 incidents of absence).					
o8-MCM3-132-mo1	Principles of drug design						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	presentation with discussion (approx. 30 minutes) Language of assessment: German or English					
o8-TCAP1-132-mo1	Theoretical Chemistry - Project course wave-packet dynamics						
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	presentation (approx. 30 minutes) Language of assessment: German or English					
	Additional Information	Additional information on module duration: 4 weeks.					
o8-TCAP2-132-mo1	Theoretical Chemistry - Project course wave function based methods						
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	presentation (approx. 30 minutes) Language of assessment: German or English					
	Additional Information	Additional information on module duration: 4 weeks.					
o8-TCAP3-132-mo1	Theoretical Chemistry - Project course Computational Photochemistry						
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	presentation (approx. 30 minutes) Language of assessment: German or English					
	Additional Information	Additional information on module duration: 4 weeks.					

Additional qualifications (15 ECTS credits)							
Additional qualifications Compulsory Electives Focuses (5 ECTS credits)							
Module from the Focuses (Schwerpunkte) area of mandatory electives that has not been used as part of a focus subject (5 ECTS credits).							
o8-BCP-092-m01	Biochemistry Lab						
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level undergraduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	pre/post-experiment examination talks (Vortestate and Nachtestate, approx. 15 minutes each), practical work (log, approx. 5 to 10 pages) Assessment offered: once a year, summer semester					
	Modules successfully completed	o8-BC					
Participants and allocation of places	Number of places: 24. Should the number of applications exceed the number of available places, places will be allocated in a standardised procedure among all applicants irrespective of their subjects according to the following quotas: Quota 1 (80% of places): grade achieved in module o8-BC; among applicants with the same grade, places will be allocated by lot. Quota 2 (20% of places): number of subject semesters of the respective applicant; among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated as they become available.						
o8-PCM4-132-m01	Ultrafast spectroscopy and quantum-control						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	a) written examination (90 minutes) or b) oral examination of one candidate each (20 minutes) or c) talk (30 minutes) Language of assessment: German or English					
	Modules successfully completed	o8-PCM1a, o8-PCM1b					
o8-ACM2-102-m01	Bioinorganic Chemistry						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the beginning of the course. Language of assessment: German or English					
	Participants and allocation of places						
o8-ACM3-102-m01	Solid state chemistry and inorganic materials						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the beginning of the course. Language of assessment: German or English					
	Participants and allocation of places						

o8-HKM2-102-mo1	Advanced organometallic chemistry and its application in homogeneous catalysis							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the beginning of the course. Language of assessment: German or English						
o8-OCM-NMRMS-102-mo1	Advanced NMR- and Mass Spectrometry							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes) Language of assessment: German or English						
o8-OCM-NAT-102-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 (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the beginning of the course. Language of assessment: German or English						
	Participants and allocation of places	Chemistry Master's: no restrictions. Biochemistry Master's: 20 places. Places will be allocated by lot.						
o8-OCM-FM-102-mo1	Organic Functional Materials							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the beginning of the course. Language of assessment: German or English						
o8-HKM1-102-mo1	Organo- and Biocatalysis							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the beginning of the course. Language of assessment: German or English						

o8-SCM1-102-m01	Supramolecular Chemistry (Basics)							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (approx. 90 minutes) or oral examination of one candidate each (approx. 20 minutes) Language of assessment: German or English						
o8-SCM3-102-m01	Bioorganic Chemistry							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the beginning of the course. Language of assessment: German or English						
o8-PCM2-102-m01	Chemical Dynamics							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (90 minutes) or oral examination of one candidate each (20 minutes) or talk (30 minutes) Language of assessment: German or English						
o8-PCM3-102-m01	Nanoscale Materials							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (90 minutes) or oral examination of one candidate each (20 minutes) or talk (30 minutes) Language of assessment: German or English						
o8-PCM5-102-m01	Physical chemistry of supramolecular assemblies							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (90 minutes) and/or oral examination of one candidate each (20 minutes) and/or talk (30 minutes) Language of assessment: German or English						
o8-PH-KAC-092-m01	Clinical and Analytical Chemistry							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	V (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (120 minutes)						
o8-PH-KACP-092-m01	Clinical and Analytical Chemistry (practical course)							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	examination talks (Testate, approx. 15 minutes each), log (approx. 5 to 10 pages)						

o8-FMM-MP-102-mo1	Lab Course Materials Science							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	Vortestate (pre-experiment exams) and Nachtestate (post-experiment exams) (15 minutes), assessment of practical performance, log (5 to 10 pages) Language of assessment: German or English						
o8-FMM-PA-102-mo1	Project Work							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	talk (approx. 15 minutes) and log (approx. 15 pages) Language of assessment: German or English						
o8-HKM4-102-mo1	Advanced transition metal chemistry							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the beginning of the course. Language of assessment: German or English						
o8-MCM1-102-mo1	Practical course medicinal chemistry							
	ECTS	10	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	Vortestate (pre-experiment exams) and Nachtestate (post-experiment exams) (approx. 20 minutes), assessment of practical performance, written report (approx. 30 to 50 pages) Language of assessment: German or English						
o8-SCM2-102-mo1	Supramolecular Chemistry (Practical Course)							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	practical work, logs (approx. 5 pages each) Language of assessment: German or English						
o8-TCM3-102-mo1	Programming in Theoretical Chemistry							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	completion and discussion of approx. 5 programming exercises as well as talk (approx. 45 minutes) Language of assessment: German or English						

o8-BC-MOLP-111-m01	Molecular Biology Lab							
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) written examination (approx. 60 to 90 minutes) or b) log (approx. 20 pages) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or d) presentation (approx. 30 minutes). Students will be informed about the method and length of the assessment prior to the course. Assessment offered: once a year, winter semester Language of assessment: German or English						
	Modules successfully completed	o8-BC (module component o8-BC-1 only)						
Participants and allocation of places	Biochemie (Biochemistry) Bachelor's: 24 places. Chemie (Chemistry) Master's: 6 places. Selection process Biochemie (Biochemistry) Bachelor's: Should the number of applications exceed the number of available places, places will be allocated according to the following quotas: Quota 1 (two thirds of places): current average grade of successfully completed modules; among applicants with the same average grade, places will be allocated by lot. Quota 2 (one third of places) number of subject semesters of the respective applicant; among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated as they become available. Selection process Chemie (Chemistry) Master's: Should the number of applications exceed the number of available places, places will be allocated according to the following quotas: Quota 1 (two thirds of places): grade of module o8-BC; among applicants with the same grade, places will be allocated by lot. Quota 2 (one third of places) number of subject semesters of the respective applicant; among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated as they become available.							
03-PM2-122-m01	Polymers II							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) written examination (approx. 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) talk (30 minutes) Language of assessment: German or English						

o8-NT-122-m01	Chemically and bio-inspired Nanotechnology for Material Synthesis							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	This module comprises 2 module components. Information on courses will be listed separately for each module component. <ul style="list-style-type: none"> o8-NT-1-122: V (no information on SWS (weekly contact hours) and course language available) o8-NT-2-122: V (no information on SWS (weekly contact hours) and course language available) 						
Method of assessment	<p>Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.</p> <p>Assessment in module component o8-NT-1-122: Sol-Gel Chemistry 1: Fundamentals</p> <ul style="list-style-type: none"> 2 ECTS, Method of grading: numerical grade a) written examination (approx. 45 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) <p>Assessment in module component o8-NT-2-122: From Biomineralisation to biologically inspired Materials Synthesis</p> <ul style="list-style-type: none"> 3 ECTS, Method of grading: numerical grade a) written examination (approx. 45 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) 							
o3-FU-PM1-122-m01	Polymer Chemistry							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	This module comprises 2 module components. Information on courses will be listed separately for each module component. <ul style="list-style-type: none"> o3-FU-PM1-1-122: V (no information on SWS (weekly contact hours) and course language available) o3-FU-PM1-2-122: P (no information on SWS (weekly contact hours) and course language available) 						
Method of assessment	<p>Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.</p> <p>Assessment in module component o3-FU-PM1-1-122: Polymer Chemistry (Lecture)</p> <ul style="list-style-type: none"> 3 ECTS, Method of grading: numerical grade a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German, English if agreed upon with the examiner <p>Assessment in module component o3-FU-PM1-2-122: Polymer Chemistry (Practical course)</p> <ul style="list-style-type: none"> 2 ECTS, Method of grading: (not) successfully completed Vortestate (pre-experiment exams, approx. 15 minutes each) and logs (approx. 5 pages each) Assessment offered: once a year, summer semester Language of assessment: German, English if agreed upon with the examiner 							
o8-FS1-122-m01	Material Science 1 (basic introduction)							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V + Ü (no information on SWS (weekly contact hours) and course language available)						
Method of assessment	<p>a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes)</p> <p>Language of assessment: German or English</p>							

o8-FS2-122-m01	Material Science 2 (the material groups)							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German or English						
o8-BC-132-m01	Principles of Biochemistry							
	ECTS	6	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	This module comprises 2 module components. Information on courses will be listed separately for each module component. <ul style="list-style-type: none"> o8-BC-1-132: V + Ü (no information on SWS (weekly contact hours) and course language available) o8-BC-2-132: V + Ü (no information on SWS (weekly contact hours) and course language available) 						
	Method of assessment	Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments. <p>Assessment in module component o8-BC-1-132: Principles of Biochemistry 1 Principles of Biochemistry 1</p> <ul style="list-style-type: none"> 3 ECTS, Method of grading: numerical grade written examination (approx. 60 to 90 minutes) <p>Assessment in module component o8-BC-2-132: Principles of Biochemistry 2 Principles of Biochemistry 2</p> <ul style="list-style-type: none"> 3 ECTS, Method of grading: numerical grade written examination (approx. 60 to 90 minutes) 						
o8-ACM1-132-m01	Advanced Inorganic Chemistry							
	ECTS	10	Duration	2 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + S (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) 1 to 2 written examinations (1 written examination: approx. 120 minutes; 2 written examinations: approx. 90 minutes each) or b) oral examination of one candidate each (30 minutes) or c) oral examination in groups (groups of 2, 45 minutes) Language of assessment: German or English						
o8-ACPM-132-m01	Inorganic Chemistry practical course for advanced							
	ECTS	10	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	practical work with lab report (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German or English						
	Additional Information	Additional information on module duration: block placement with a duration of a minimum of 40 working days.						

o8-OCM-SYNT-132-mo1	Modern Synthetic Methods							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) 1 to 2 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German or English						
other prerequisites	Admission prerequisite to assessment: successful completion of exercises in the respective classes (usually 70% of exercises -- 10 to 15 hours -- to be successfully completed) as well as regular attendance of exercises (a maximum of 2 incidents of absence).							
o8-OCM-AKP1-122-mo1	Advanced Research Project							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
Method of assessment	talk (approx. 15 minutes) and log (approx. 15 to 20 pages) Language of assessment: German or English							
o8-TCM2-132-mo1	Computational Chemistry							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (approx. 90 minutes) Language of assessment: German or English						
other prerequisites	Admission prerequisite to assessment: successful completion of exercises in the respective classes (usually 70% of exercises -- 10 to 15 hours -- to be successfully completed) as well as regular attendance of exercises (a maximum of 2 incidents of absence).							
o8-PCM1a-132-mo1	Laser Spectroscopy							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
Method of assessment	written examination (90 minutes) or oral examination (20 minutes) Language of assessment: German or English							
o8-PCM1b-132-mo1	Advanced Physical Chemistry (Lab)							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	Vortestate (pre-experiment exams) and Nachtestate (post-experiment exams) (approx. 15 minutes) and log (approx. 15 pages) Language of assessment: German or English						
Additional Information	Additional information on module duration: block placement with a duration of a minimum of 20 working days.							

o8-TCM1-132-m01	Theoretical Chemistry (Basics)							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (approx. 90 minutes) Language of assessment: German or English						
	other prerequisites	Admission prerequisite to assessment: successful completion of exercises in the respective classes (usually 70% of exercises -- 10 to 15 hours -- to be successfully completed) as well as regular attendance of exercises (a maximum of 2 incidents of absence).						
o8-PCM6-132-m01	Physical Chemistry (Advanced Lab)							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	presentation (approx. 20 minutes) Language of assessment: German or English						
	Modules successfully completed	o8-PCM1						
Additional Information	Additional information on module duration: block placement with a duration of a minimum of 20 working days.							
o8-BC-MOLM-132-m01	Molecular Biology							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) written examination (approx. 60 to 90 minutes) or b) log (approx. 20 pages) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or d) presentation (approx. 30 minutes). Students will be informed about the method and length of the assessment prior to the course. Language of assessment: German or English						
	Additional Information							
o8-BC-VPMM-132-m01	Practical course Molecular Machines for advanced students							
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German or English						
	Modules successfully completed	o8-BC, o8-BCP						
Additional Information	Additional information on module duration: block placement with a duration of a minimum of 40 working days.							

o8-BC-VPPD-132-mo1	Practical course Protein Degradation in Eukaryotes for advanced students							
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German or English						
	Modules successfully completed	o8-BC, o8-BCP						
Additional Information	Additional information on module duration: block placement with a duration of a minimum of 40 working days.							
o8-BC-VPRB-132-mo1	Practical course RNA Biochemistry for advanced students							
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German or English						
	Modules successfully completed	o8-BC, o8-BCP						
Additional Information	Additional information on module duration: block placement with a duration of a minimum of 40 working days.							
o8-BC-VPSB-132-mo1	Practical course Structural Biology for advanced students							
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German or English						
	Modules successfully completed	o8-BC, o8-BCP						
Additional Information	Additional information on module duration: block placement with a duration of a minimum of 40 working days.							
o8-MCM3-132-mo1	Principles of drug design							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	presentation with discussion (approx. 30 minutes) Language of assessment: German or English						
o8-FMM-CT-132-mo1	Molecular Materials							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	presentation (approx. 30 minutes) and examination: a) 1 to 2 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes total)						
	other prerequisites	Admission prerequisite to assessment: successful completion of exercises in the respective classes (usually 70% of exercises -- 10 to 15 hours -- to be successfully completed) as well as regular attendance of exercises (a maximum of 2 incidents of absence).						

o8-HKM3AC-132-m01	Practical course Homogeneous catalysis in Inorganic Chemistry							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	practical work with lab report (approx. 10 pages) and talk (approx. 15 minutes) Language of assessment: German or English						
Additional Information	Additional information on module duration: block placement with a duration of a minimum of 20 working days.							
o8-HKM3OC-132-m01	Practical course Homogeneous catalysis in Organic Chemistry							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	practical work with lab report (approx. 10 pages) and talk (approx. 15 minutes) Language of assessment: German or English						
Additional Information	Additional information on module duration: block placement with a duration of a minimum of 20 working days.							
o8-MCM2-132-m01	Pharmaceutical/Medicinal Chemistry							
	ECTS	10	Duration	3 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V + V + V (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	3 oral examinations of one candidate each (approx. 30 minutes each) Language of assessment: German or English						
o8-TCAP1-132-m01	Theoretical Chemistry - Project course wave-packet dynamics							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	presentation (approx. 30 minutes) Language of assessment: German or English						
Additional Information	Additional information on module duration: 4 weeks.							
o8-TCAP2-132-m01	Theoretical Chemistry - Project course wave function based methods							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	presentation (approx. 30 minutes) Language of assessment: German or English						
Additional Information	Additional information on module duration: 4 weeks.							
o8-TCAP3-132-m01	Theoretical Chemistry - Project course Computational Photochemistry							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	presentation (approx. 30 minutes) Language of assessment: German or English						
Additional Information	Additional information on module duration: 4 weeks.							

Other additional qualifications (10 ECTS credits)							
03-TR-072-m01	Toxicology and legal studies						
	ECTS	3	Duration	1 semester	Method of grading	numerical grade	Modul level undergraduate
	Courses	V + V (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	written examination (approx. 90 minutes)					
08-WRM1-132-m01	Tutoring 1 (practical course)						
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level graduate
	Courses	Ü (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	preparation of materials for demonstrations and exercises (approx. 120 hours total) Language of assessment: German or English					
other prerequisites	Using activities performed under a research assistant contract for this module is not permitted. The exercise must accompany a different course than the exercise held in module 08-WRM2.						
08-WRM2-132-m01	Tutoring 2 (practical course)						
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level graduate
	Courses	Ü (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	preparation of materials for demonstrations and exercises (approx. 120 hours total) Language of assessment: German or English					
other prerequisites	Using activities performed under a research assistant contract for this module is not permitted. The exercise must accompany a different course than the exercise held in module 08-WRM1.						
08-APM1-132-m01	Foreign Studies (short)						
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	report (2 pages); proof of having completed lab course Language of assessment: German or English; language of the respective placement country where required					
	other prerequisites	Admission prerequisite to assessment: regular attendance of placement (a maximum of 2 incidents of absence); consultation with course advisory service prior to placement highly recommended; not to be combined with 08-APM2.					
Additional Information	Additional information on module duration: block placement abroad with a duration of a minimum of 20 working days.						
08-APM2-132-m01	Foreign Studies (long)						
	ECTS	10	Duration	2 semester	Method of grading	(not) successfully completed	Modul level graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	report (2 pages); proof of having completed lab course Language of assessment: German or English; language of the respective placement country where required					
	other prerequisites	Admission prerequisite to assessment: regular attendance of placement (a maximum of 2 incidents of absence); consultation with course advisory service prior to placement highly recommended; not to be combined with 08-APM1.					
Additional Information	Additional information on module duration: block placement abroad with a duration of a minimum of 40 working days.						

o8-CHPM1-132-m01	Chemistry-related courses outside of the Natural Sciences							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	V (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	assessment: a) 1 to 3 written examinations (approx. 60 or approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) or successful completion as certified by the lecturer Language of assessment: German or English						
	other prerequisites	Please consult with course advisory service.						
o8-CHPM2-132-m01	Chemistry-related courses within the Natural Sciences							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	V (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	assessment: a) 1 to 3 written examinations (approx. 60 or approx. 90 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) or successful completion as certified by the lecturer Language of assessment: German or English						
	other prerequisites	Please consult with course advisory service.						
Compulsory Courses (double degree) (5 ECTS credits)								
o3-TR-072-m01	Toxicology and legal studies							
	ECTS	3	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	V + V (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (approx. 90 minutes)						
o8-VPM-DA-132-m01	Advanced chemical practical course							
	ECTS	2	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written report (approx. 3 pages) Language of assessment: German, English						
Compulsory Electives (double degree) (55 ECTS credits) Students must choose two focuses (focus 1 with 30 ECTS credits, focus 2 with 25 ECTS credits).								
Inorganic Chemistry								
Compulsory Courses (20 ECTS credits)								
o8-ACM1-132-m01	Advanced Inorganic Chemistry							
	ECTS	10	Duration	2 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + S (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) 1 to 2 written examinations (1 written examination: approx. 120 minutes; 2 written examinations: approx. 90 minutes each) or b) oral examination of one candidate each (30 minutes) or c) oral examination in groups (groups of 2, 45 minutes) Language of assessment: German or English						

o8-ACPM-132-m01	Inorganic Chemistry practical course for advanced							
	ECTS	10	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	practical work with lab report (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German or English						
Additional Information	Additional information on module duration: block placement with a duration of a minimum of 40 working days.							
Compulsory Electives								
o8-ACM2-102-m01	Bioinorganic Chemistry							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the beginning of the course. Language of assessment: German or English						
o8-ACM3-102-m01	Solid state chemistry and inorganic materials							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the beginning of the course. Language of assessment: German or English						
o8-HKM2-102-m01	Advanced organometallic chemistry and its application in homogeneous catalysis							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the beginning of the course. Language of assessment: German or English						
o8-OCM-NMRMS-102-m01	Advanced NMR- and Mass Spectrometry							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes) Language of assessment: German or English						

o8-TCM2-132-m01	Computational Chemistry							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (approx. 90 minutes) Language of assessment: German or English						
	other prerequisites	Admission prerequisite to assessment: successful completion of exercises in the respective classes (usually 70% of exercises -- 10 to 15 hours -- to be successfully completed) as well as regular attendance of exercises (a maximum of 2 incidents of absence).						
Organic Chemistry								
Compulsory Courses (15 ECTS credits)								
o8-OCM-NMRMS-102-m01	Advanced NMR- and Mass Spectrometry							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes) Language of assessment: German or English						
o8-OCM-SYNT-132-m01	Modern Synthetic Methods							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) 1 to 2 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German or English						
	other prerequisites	Admission prerequisite to assessment: successful completion of exercises in the respective classes (usually 70% of exercises -- 10 to 15 hours -- to be successfully completed) as well as regular attendance of exercises (a maximum of 2 incidents of absence).						
o8-OCM-AKP1-122-m01	Advanced Research Project							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	talk (approx. 15 minutes) and log (approx. 15 to 20 pages) Language of assessment: German or English						

Compulsory Electives							
o8-OCM-NAT-102-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 (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the beginning of the course. Language of assessment: German or English					
Participants and allocation of places	Chemistry Master's: no restrictions. Biochemistry Master's: 20 places. Places will be allocated by lot.						
o8-OCM-FM-102-m01	Organic Functional Materials						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the beginning of the course. Language of assessment: German or English					
o8-HKM1-102-m01	Organo- and Biocatalysis						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the beginning of the course. Language of assessment: German or English					
o8-SCM1-102-m01	Supramolecular Chemistry (Basics)						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	written examination (approx. 90 minutes) or oral examination of one candidate each (approx. 20 minutes) Language of assessment: German or English					
o8-SCM3-102-m01	Bioorganic Chemistry						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the beginning of the course. Language of assessment: German or English					

o8-PH-KACP-092-m01	Clinical and Analytical Chemistry (practical course)							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	examination talks (Testate, approx. 15 minutes each), log (approx. 5 to 10 pages)						
o8-TCM2-132-m01	Computational Chemistry							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (approx. 90 minutes) Language of assessment: German or English						
	other prerequisites	Admission prerequisite to assessment: successful completion of exercises in the respective classes (usually 70% of exercises -- 10 to 15 hours -- to be successfully completed) as well as regular attendance of exercises (a maximum of 2 incidents of absence).						
Physical Chemistry								
Compulsory Courses (20 ECTS credits)								
o8-PCM2-102-m01	Chemical Dynamics							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (90 minutes) or oral examination of one candidate each (20 minutes) or talk (30 minutes) Language of assessment: German or English						
o8-PCM1a-132-m01	Laser Spectroscopy							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (90 minutes) or oral examination (20 minutes) Language of assessment: German or English						
o8-PCM1b-132-m01	Advanced Physical Chemistry (Lab)							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	Vortestate (pre-experiment exams) and Nachtestate (post-experiment exams) (approx. 15 minutes) and log (approx. 15 pages) Language of assessment: German or English						
	Additional Information	Additional information on module duration: block placement with a duration of a minimum of 20 working days.						

o8-PCM6-132-m01	Physical Chemistry (Advanced Lab)							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	presentation (approx. 20 minutes) Language of assessment: German or English						
	Modules successfully completed	o8-PCM1						
Additional Information	Additional information on module duration: block placement with a duration of a minimum of 20 working days.							
Compulsory Electives								
o8-PCM4-132-m01	Ultrafast spectroscopy and quantum-control							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) written examination (90 minutes) or b) oral examination of one candidate each (20 minutes) or c) talk (30 minutes) Language of assessment: German or English						
	Modules successfully completed	o8-PCM1a, o8-PCM1b						
o8-PCM3-102-m01	Nanoscale Materials							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (90 minutes) or oral examination of one candidate each (20 minutes) or talk (30 minutes) Language of assessment: German or English						
o8-PCM5-102-m01	Physical chemistry of supramolecular assemblies							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (90 minutes) and/or oral examination of one candidate each (20 minutes) and/or talk (30 minutes) Language of assessment: German or English						
o8-FMM-MP-102-m01	Lab Course Materials Science							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	Vortestate (pre-experiment exams) and Nachtestate (post-experiment exams) (15 minutes), assessment of practical performance, log (5 to 10 pages) Language of assessment: German or English						
o8-TCM3-102-m01	Programming in Theoretical Chemistry							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	completion and discussion of approx. 5 programming exercises as well as talk (approx. 45 minutes) Language of assessment: German or English						

o8-FS1-122-m01	Material Science 1 (basic introduction)							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German or English						
o8-TCM2-132-m01	Computational Chemistry							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (approx. 90 minutes) Language of assessment: German or English						
other prerequisites	Admission prerequisite to assessment: successful completion of exercises in the respective classes (usually 70% of exercises -- 10 to 15 hours -- to be successfully completed) as well as regular attendance of exercises (a maximum of 2 incidents of absence).							
o8-TCM1-132-m01	Theoretical Chemistry (Basics)							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (approx. 90 minutes) Language of assessment: German or English						
other prerequisites	Admission prerequisite to assessment: successful completion of exercises in the respective classes (usually 70% of exercises -- 10 to 15 hours -- to be successfully completed) as well as regular attendance of exercises (a maximum of 2 incidents of absence).							
o8-TCAP1-132-m01	Theoretical Chemistry - Project course wave-packet dynamics							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	presentation (approx. 30 minutes) Language of assessment: German or English						
Additional Information	Additional information on module duration: 4 weeks.							
o8-TCAP2-132-m01	Theoretical Chemistry - Project coursewave function based methods							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	presentation (approx. 30 minutes) Language of assessment: German or English						
Additional Information	Additional information on module duration: 4 weeks.							

o8-TCAP3-132-mo1	Theoretical Chemistry - Project course Computational Photochemistry							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	presentation (approx. 30 minutes) Language of assessment: German or English						
Additional Information	Additional information on module duration: 4 weeks.							
Biochemistry								
Compulsory Courses (15 ECTS credits)								
o8-BC-MOLP-111-mo1	Molecular Biology Lab							
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) written examination (approx. 60 to 90 minutes) or b) log (approx. 20 pages) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or d) presentation (approx. 30 minutes). Students will be informed about the method and length of the assessment prior to the course. Assessment offered: once a year, winter semester Language of assessment: German or English						
	Modules successfully completed	o8-BC (module component o8-BC-1 only)						
Participants and allocation of places	Biochemie (Biochemistry) Bachelor's: 24 places. Chemie (Chemistry) Master's: 6 places. Selection process Biochemie (Biochemistry) Bachelor's: Should the number of applications exceed the number of available places, places will be allocated according to the following quotas: Quota 1 (two thirds of places): current average grade of successfully completed modules; among applicants with the same average grade, places will be allocated by lot. Quota 2 (one third of places) number of subject semesters of the respective applicant; among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated as they become available. Selection process Chemie (Chemistry) Master's: Should the number of applications exceed the number of available places, places will be allocated according to the following quotas: Quota 1 (two thirds of places): grade of module o8-BC; among applicants with the same grade, places will be allocated by lot. Quota 2 (one third of places) number of subject semesters of the respective applicant; among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated as they become available.							
o8-BC-MOLM-132-mo1	Molecular Biology							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	V + Ü (no information on SWS (weekly contact hours) and course language available)						
Method of assessment	a) written examination (approx. 60 to 90 minutes) or b) log (approx. 20 pages) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or d) presentation (approx. 30 minutes). Students will be informed about the method and length of the assessment prior to the course. Language of assessment: German or English							

Compulsory Electives							
Specialist Lab Course (10 ECTS credits)							
o8-BC-VPMM-132-m01	Practical course Molecular Machines for advanced students						
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German or English					
	Modules successfully completed	o8-BC, o8-BCP					
Additional Information	Additional information on module duration: block placement with a duration of a minimum of 40 working days.						
o8-BC-VPPD-132-m01	Practical course Protein Degradation in Eukaryotes for advanced students						
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German or English					
	Modules successfully completed	o8-BC, o8-BCP					
Additional Information	Additional information on module duration: block placement with a duration of a minimum of 40 working days.						
o8-BC-VPRB-132-m01	Practical course RNA Biochemistry for advanced students						
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German or English					
	Modules successfully completed	o8-BC, o8-BCP					
Additional Information	Additional information on module duration: block placement with a duration of a minimum of 40 working days.						
o8-BC-VPSB-132-m01	Practical course Structural Biology for advanced students						
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German or English					
	Modules successfully completed	o8-BC, o8-BCP					
Additional Information	Additional information on module duration: block placement with a duration of a minimum of 40 working days.						

Other Courses							
o8-BCP-092-m01	Biochemistry Lab						
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level undergraduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	pre/post-experiment examination talks (Vortestate and Nachtestate, approx. 15 minutes each), practical work (log, approx. 5 to 10 pages) Assessment offered: once a year, summer semester					
	Modules successfully completed	o8-BC					
Participants and allocation of places	Number of places: 24. Should the number of applications exceed the number of available places, places will be allocated in a standardised procedure among all applicants irrespective of their subjects according to the following quotas: Quota 1 (80% of places): grade achieved in module o8-BC; among applicants with the same grade, places will be allocated by lot. Quota 2 (20% of places): number of subject semesters of the respective applicant; among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated as they become available.						
o8-ACM2-102-m01	Bioinorganic Chemistry						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the beginning of the course. Language of assessment: German or English					
	Participants and allocation of places						
o8-OCM-NAT-102-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 (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the beginning of the course. Language of assessment: German or English					
	Participants and allocation of places	Chemistry Master's: no restrictions. Biochemistry Master's: 20 places. Places will be allocated by lot.					
o8-HKM1-102-m01	Organo- and Biocatalysis						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the beginning of the course. Language of assessment: German or English					

o8-PH-KAC-092-m01	Clinical and Analytical Chemistry							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	V (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (120 minutes)						
o8-PH-KACP-092-m01	Clinical and Analytical Chemistry (practical course)							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	examination talks (Testate, approx. 15 minutes each), log (approx. 5 to 10 pages)						
o8-BC-132-m01	Principles of Biochemistry							
	ECTS	6	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	This module comprises 2 module components. Information on courses will be listed separately for each module component. <ul style="list-style-type: none"> o8-BC-1-132: V + Ü (no information on SWS (weekly contact hours) and course language available) o8-BC-2-132: V + Ü (no information on SWS (weekly contact hours) and course language available) 						
	Method of assessment	Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments. <p>Assessment in module component o8-BC-1-132: Principles of Biochemistry 1 Principles of Biochemistry 1</p> <ul style="list-style-type: none"> 3 ECTS, Method of grading: numerical grade written examination (approx. 60 to 90 minutes) <p>Assessment in module component o8-BC-2-132: Principles of Biochemistry 2 Principles of Biochemistry 2</p> <ul style="list-style-type: none"> 3 ECTS, Method of grading: numerical grade written examination (approx. 60 to 90 minutes) 						
o8-MCM3-132-m01	Principles of drug design							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	presentation with discussion (approx. 30 minutes) Language of assessment: German or English						
Functional Materials								
Compulsory Courses (20 ECTS credits)								
o8-OCM-FM-102-m01	Organic Functional Materials							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the beginning of the course. Language of assessment: German or English						

o8-FMM-MP-102-mo1	Lab Course Materials Science							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	Vortestate (pre-experiment exams) and Nachtestate (post-experiment exams) (15 minutes), assessment of practical performance, log (5 to 10 pages) Language of assessment: German or English						
o8-FMM-PA-102-mo1	Project Work							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	talk (approx. 15 minutes) and log (approx. 15 pages) Language of assessment: German or English						
o8-FS1-122-mo1	Material Science 1 (basic introduction)							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German or English						
Compulsory Electives								
o8-ACM3-102-mo1	Solid state chemistry and inorganic materials							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the beginning of the course. Language of assessment: German or English						
o8-SCM1-102-mo1	Supramolecular Chemistry (Basics)							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (approx. 90 minutes) or oral examination of one candidate each (approx. 20 minutes) Language of assessment: German or English						
o8-PCM3-102-mo1	Nanoscale Materials							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (90 minutes) or oral examination of one candidate each (20 minutes) or talk (30 minutes) Language of assessment: German or English						

o8-NT-122-m01	Chemically and bio-inspired Nanotechnology for Material Synthesis							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	This module comprises 2 module components. Information on courses will be listed separately for each module component. <ul style="list-style-type: none"> o8-NT-1-122: V (no information on SWS (weekly contact hours) and course language available) o8-NT-2-122: V (no information on SWS (weekly contact hours) and course language available) 						
	Method of assessment	Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments. <p>Assessment in module component o8-NT-1-122: Sol-Gel Chemistry 1: Fundamentals</p> <ul style="list-style-type: none"> 2 ECTS, Method of grading: numerical grade a) written examination (approx. 45 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) <p>Assessment in module component o8-NT-2-122: From Biomineralisation to biologically inspired Materials Synthesis</p> <ul style="list-style-type: none"> 3 ECTS, Method of grading: numerical grade a) written examination (approx. 45 minutes) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) 						
o8-FS2-122-m01	Material Science 2 (the material groups)							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German or English						
o8-TCM2-132-m01	Computational Chemistry							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (approx. 90 minutes) Language of assessment: German or English						
	other prerequisites	Admission prerequisite to assessment: successful completion of exercises in the respective classes (usually 70% of exercises -- 10 to 15 hours -- to be successfully completed) as well as regular attendance of exercises (a maximum of 2 incidents of absence).						
o8-FMM-CT-132-m01	Molecular Materials							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	presentation (approx. 30 minutes) and examination: a) 1 to 2 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes total)						
	other prerequisites	Admission prerequisite to assessment: successful completion of exercises in the respective classes (usually 70% of exercises -- 10 to 15 hours -- to be successfully completed) as well as regular attendance of exercises (a maximum of 2 incidents of absence).						

Medicinal Chemistry							
Compulsory Courses (10 ECTS credits)							
o8-MCM2-132-mo1	Pharmaceutical/Medicinal Chemistry						
	ECTS	10	Duration	3 semester	Method of grading	numerical grade	Modul level graduate
	Courses	V + V + V (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	3 oral examinations of one candidate each (approx. 30 minutes each) Language of assessment: German or English					
Compulsory Electives							
o8-ACM2-102-mo1	Bioinorganic Chemistry						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level graduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the beginning of the course. Language of assessment: German or English					
o8-OCM-NAT-102-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 (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the beginning of the course. Language of assessment: German or English					
	Participants and allocation of places	Chemistry Master's: no restrictions. Biochemistry Master's: 20 places. Places will be allocated by lot.					
o8-PH-KAC-092-mo1	Clinical and Analytical Chemistry						
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level undergraduate
	Courses	V (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	written examination (120 minutes)					
o8-PH-KACP-092-mo1	Clinical and Analytical Chemistry (practical course)						
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level undergraduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment	examination talks (Testate, approx. 15 minutes each), log (approx. 5 to 10 pages)					

o8-MCM1-102-m01	Practical course medicinal chemistry							
	ECTS	10	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	Vortestate (pre-experiment exams) and Nachtestate (post-experiment exams) (approx. 20 minutes), assessment of practical performance, written report (approx. 30 to 50 pages) Language of assessment: German or English						
o8-OCM-SYNT-132-m01	Modern Synthetic Methods							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) 1 to 2 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes) Language of assessment: German or English						
other prerequisites	Admission prerequisite to assessment: successful completion of exercises in the respective classes (usually 70% of exercises -- 10 to 15 hours -- to be successfully completed) as well as regular attendance of exercises (a maximum of 2 incidents of absence).							
o8-BC-MOLM-132-m01	Molecular Biology							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses	V + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) written examination (approx. 60 to 90 minutes) or b) log (approx. 20 pages) or c) oral examination of one candidate each (approx. 20 minutes) or d) oral examination in groups of up to 3 candidates (groups of 2: approx. 30 minutes, groups of 3: approx. 40 minutes) or d) presentation (approx. 30 minutes). Students will be informed about the method and length of the assessment prior to the course. Language of assessment: German or English						
o8-BC-VPSB-132-m01	Practical course Structural Biology for advanced students							
	ECTS	10	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	log (approx. 20 pages) and talk (approx. 15 minutes) Language of assessment: German or English						
	Modules successfully completed	o8-BC, o8-BCP						
Additional Information	Additional information on module duration: block placement with a duration of a minimum of 40 working days.							
o8-MCM3-132-m01	Principles of drug design							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
Method of assessment	presentation with discussion (approx. 30 minutes) Language of assessment: German or English							

Theoretical Chemistry								
Compulsory Courses (10 ECTS credits)								
o8-TCM3-102-m01	Programming in Theoretical Chemistry							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	completion and discussion of approx. 5 programming exercises as well as talk (approx. 45 minutes) Language of assessment: German or English						
o8-TCM1-132-m01	Theoretical Chemistry (Basics)							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (approx. 90 minutes) Language of assessment: German or English						
	other prerequisites	Admission prerequisite to assessment: successful completion of exercises in the respective classes (usually 70% of exercises -- 10 to 15 hours -- to be successfully completed) as well as regular attendance of exercises (a maximum of 2 incidents of absence).						
Compulsory Electives								
One to two of the following modules must be taken: o8-TCAP1, o8-TCAP2, o8-TCAP3								
o8-TCM2-132-m01	Computational Chemistry							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	written examination (approx. 90 minutes) Language of assessment: German or English						
	other prerequisites	Admission prerequisite to assessment: successful completion of exercises in the respective classes (usually 70% of exercises -- 10 to 15 hours -- to be successfully completed) as well as regular attendance of exercises (a maximum of 2 incidents of absence).						
o8-MCM3-132-m01	Principles of drug design							
	ECTS	5	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	S + Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	presentation with discussion (approx. 30 minutes) Language of assessment: German or English						
o8-TCAP1-132-m01	Theoretical Chemistry - Project course wave-packet dynamics							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	presentation (approx. 30 minutes) Language of assessment: German or English						
	Additional Information	Additional information on module duration: 4 weeks.						

o8-TCAP2-132-mo1	Theoretical Chemistry - Project coursewave function based methods							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	presentation (approx. 30 minutes) Language of assessment: German or English						
Additional Information	Additional information on module duration: 4 weeks.							
o8-TCAP3-132-mo1	Theoretical Chemistry - Project course Computational Photochemistry							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	presentation (approx. 30 minutes) Language of assessment: German or English						
Additional Information	Additional information on module duration: 4 weeks.							
Courses at partner university abroad (30 ECTS credits)								
o8-VPU-141-mo1	Courses at the partner university							
	ECTS	30	Duration	2 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	V (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	assessment or successful completion as certified by the lecturer; methods of assessment: a) written examination (approx. 90 to 180 minutes) or b) oral examination of one candidate each (approx. 20 to 30 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes); students will be informed about the method and length of the assessment prior to the course Language of assessment: German or English						
other prerequisites	Please consult with course advisory service.							
Thesis (30 ECTS credits)								
o8-MA-132-mo1	Master-Thesis							
	ECTS	30	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses	no courses assigned						
	Method of assessment	written thesis (approx. 60 to 80 pages) Language of assessment: German or English						
	other prerequisites	Where applicable, specific modules as specified by supervisor.						
Additional Information	Additional information on module duration: 6 months.							