

## Annex SFB

### Studienfachbeschreibung (subject description, SFB) for the subject FOKUS 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: 2016

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

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

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

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

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

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

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

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

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

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

**ASPO2015**

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

**15-Dec-2015 (2015-258)**

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 Courses "Additional Qualifications" (10 ECTS credits)								
o8-FOM-HOT-161-m01	Advanced discussion of hot topics in contemporary chemical research							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	S (2)						
	Method of assessment	talk (approx. 15 minutes) with discussion (approx. 15 minutes) Language of assessment: German and/or English						
o8-FOM-TOP-161-m01	Latest topics of current chemical research							
	ECTS	5	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	S (2)						
	Method of assessment	talk (approx. 15 minutes) with discussion (approx. 15 minutes) Language of assessment: German and/or English						
Compulsory Electives (80 ECTS credits)								
Students must successfully complete all modules of a total of four sub-areas worth 20 ECTS credits each; provisions on available combinations are set out in Section 3 Subsection 2 FSB (subject-specific provisions).								
Subfield Inorganic Chemistry (20 ECTS credits)								
o8-ACFM1-161-m01	Research oriented inorganic chemistry							
	ECTS	12	Duration		Method of grading	numerical grade	Modul level	graduate
	Courses	S (3) + S (3) + S (3)						
	Method of assessment	oral examination of one candidate each (approx. 45 minutes) Language of assessment: German and/or English						
o8-ACFM2-161-m01	Research oriented practical course in inorganic chemistry							
	ECTS	8	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (10)						
	Method of assessment	report on practical course (approx. 40 pages) and talk including discussion (approx. 30 minutes) Language of assessment: German and/or English						
	Additional Information	Additional information on module duration: block placement with a duration of approx. 40 working days. At student's option, the placement may be divided up into two individual placements with a duration of approx. 20 working days each. If the placement is divided up into two individual placements, students will be required to prepare a placement report (approx. 15 pages) and deliver a talk (including discussion, approx. 10 minutes) for each of the placements.						
Subfield Organic Chemistry (20 ECTS credits)								
o8-OCFM1-161-m01	Research oriented organic chemistry							
	ECTS	12	Duration		Method of grading	numerical grade	Modul level	graduate
	Courses	S (3) + S (3) + S (3)						
	Method of assessment	oral examination of one candidate each (approx. 45 minutes) Language of assessment: German and/or English						

o8-OCFM2-161-mo1	<b>Research oriented practical course in organic chemistry</b>							
	ECTS	8	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (10)						
	Method of assessment	report on practical course (approx. 40 pages) and talk including discussion (approx. 30 minutes) Language of assessment: German and/or English						
	Additional Information	Additional information on module duration: block placement with a duration of approx. 40 working days. At student's option, the placement may be divided up into two individual placements with a duration of approx. 20 working days each. If the placement is divided up into two individual placements, students will be required to prepare a placement report (approx. 15 pages) and deliver a talk (including discussion, approx. 10 minutes) for each of the placements.						
<b>Subfield Physical Chemistry (20 ECTS credits)</b>								
o8-PCFM1-161-mo1	<b>Research oriented physical chemistry</b>							
	ECTS	12	Duration		Method of grading	numerical grade	Modul level	graduate
	Courses	S (3) + S (3) + S (3)						
	Method of assessment	oral examination of one candidate each (approx. 45 minutes) Language of assessment: German and/or English						
o8-PCFM2-161-mo1	<b>Research oriented practical course in physical chemistry</b>							
	ECTS	8	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (10)						
	Method of assessment	report on practical course (approx. 40 pages) and talk including discussion (approx. 30 minutes) Language of assessment: German and/or English						
	Additional Information	Additional information on module duration: block placement with a duration of approx. 40 working days. At student's option, the placement may be divided up into two individual placements with a duration of approx. 20 working days each. If the placement is divided up into two individual placements, students will be required to prepare a placement report (approx. 15 pages) and deliver a talk (including discussion, approx. 10 minutes) for each of the placements.						
<b>Subfield Biochemistry (20 ECTS credits)</b>								
o8-BCFM1-161-mo1	<b>Research oriented biochemistry</b>							
	ECTS	12	Duration		Method of grading	numerical grade	Modul level	graduate
	Courses	S (3) + S (3) + S (3)						
	Method of assessment	oral examination of one candidate each (approx. 45 minutes) Language of assessment: German and/or English						
o8-BCFM2-161-mo1	<b>Research oriented practical course in biochemistry</b>							
	ECTS	8	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (10)						
	Method of assessment	report on practical course (approx. 40 pages) and talk including discussion (approx. 30 minutes) Language of assessment: German and/or English						
	Additional Information	Additional information on module duration: block placement with a duration of approx. 40 working days. At student's option, the placement may be divided up into two individual placements with a duration of approx. 20 working days each. If the placement is divided up into two individual placements, students will be required to prepare a placement report (approx. 15 pages) and deliver a talk (including discussion, approx. 10 minutes) for each of the placements.						
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Subfield Functional Materials (20 ECTS credits)								
o8-FMFM1-161-m01	Research oriented course in functional materials							
	ECTS	12	Duration		Method of grading	numerical grade	Modul level	graduate
	Courses	S (3) + S (3) + S (3)						
	Method of assessment	oral examination of one candidate each (approx. 45 minutes) Language of assessment: German and/or English						
o8-FMFM2-161-m01	Research oriented practical course in functional materials							
	ECTS	8	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (10)						
	Method of assessment	report on practical course (approx. 40 pages) and talk including discussion (approx. 30 minutes) Language of assessment: German and/or English						
	Additional Information	Additional information on module duration: block placement with a duration of approx. 40 working days. At student's option, the placement may be divided up into two individual placements with a duration of approx. 20 working days each. If the placement is divided up into two individual placements, students will be required to prepare a placement report (approx. 15 pages) and deliver a talk (including discussion, approx. 10 minutes) for each of the placements.						
Subfield Homogeneous Catalysis (20 ECTS credits)								
o8-HKFM1-161-m01	Research oriented course in homogeneous catalysis							
	ECTS	12	Duration		Method of grading	numerical grade	Modul level	graduate
	Courses	S (3) + S (3) + S (3)						
	Method of assessment	oral examination of one candidate each (approx. 45 minutes) Language of assessment: German and/or English						
o8-HKFM2-161-m01	Research oriented practical course in homogeneous catalysis							
	ECTS	8	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (10)						
	Method of assessment	report on practical course (approx. 40 pages) and talk including discussion (approx. 30 minutes) Language of assessment: German and/or English						
	Additional Information	Additional information on module duration: block placement with a duration of approx. 40 working days. At student's option, the placement may be divided up into two individual placements with a duration of approx. 20 working days each. If the placement is divided up into two individual placements, students will be required to prepare a placement report (approx. 15 pages) and deliver a talk (including discussion, approx. 10 minutes) for each of the placements.						
Subfield Medicinal Chemistry (20 ECTS credits)								
o8-MCFM1-161-m01	Research oriented pharmaceutical/medicinal chemistry							
	ECTS	12	Duration		Method of grading	numerical grade	Modul level	graduate
	Courses	S (3) + S (3) + S (3)						
	Method of assessment	oral examination of one candidate each (approx. 45 minutes) Language of assessment: German and/or English						

o8-MCFM2-161-mo1	<b>Research oriented practical course in pharmaceutical/medicinal chemistry</b>							
	ECTS	8	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (10)						
	Method of assessment	report on practical course (approx. 40 pages) and talk including discussion (approx. 30 minutes) Language of assessment: German and/or English						
	Additional Information	Additional information on module duration: block placement with a duration of approx. 40 working days. At student's option, the placement may be divided up into two individual placements with a duration of approx. 20 working days each. If the placement is divided up into two individual placements, students will be required to prepare a placement report (approx. 15 pages) and deliver a talk (including discussion, approx. 10 minutes) for each of the placements.						
<b>Subfield Supramolecular Chemistry (20 ECTS credits)</b>								
o8-SCFM1-161-mo1	<b>Research oriented supramolecular chemistry</b>							
	ECTS	12	Duration		Method of grading	numerical grade	Modul level	graduate
	Courses	S (3) + S (3) + S (3)						
	Method of assessment	oral examination of one candidate each (approx. 45 minutes) Language of assessment: German and/or English						
o8-SCFM2-161-mo1	<b>Research oriented practical course in supramolecular chemistry</b>							
	ECTS	8	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (10)						
	Method of assessment	report on practical course (approx. 40 pages) and talk including discussion (approx. 30 minutes) Language of assessment: German and/or English						
	Additional Information	Additional information on module duration: block placement with a duration of approx. 40 working days. At student's option, the placement may be divided up into two individual placements with a duration of approx. 20 working days each. If the placement is divided up into two individual placements, students will be required to prepare a placement report (approx. 15 pages) and deliver a talk (including discussion, approx. 10 minutes) for each of the placements.						
<b>Subfield Theoretical Chemistry (20 ECTS credits)</b>								
o8-TCFM1-161-mo1	<b>Research oriented theoretical chemistry</b>							
	ECTS	12	Duration		Method of grading	numerical grade	Modul level	graduate
	Courses	S (3) + S (3) + S (3)						
	Method of assessment	oral examination of one candidate each (approx. 45 minutes) Language of assessment: German and/or English						
o8-TCFM2-161-mo1	<b>Research oriented practical course in theoretical chemistry</b>							
	ECTS	8	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	graduate
	Courses	P (10)						
	Method of assessment	report on practical course (approx. 40 pages) and talk including discussion (approx. 30 minutes) Language of assessment: German and/or English						
	Additional Information	Additional information on module duration: block placement with a duration of approx. 40 working days. At student's option, the placement may be divided up into two individual placements with a duration of approx. 20 working days each. If the placement is divided up into two individual placements, students will be required to prepare a placement report (approx. 15 pages) and deliver a talk (including discussion, approx. 10 minutes) for each of the placements.						
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Subfield Additional Skills (20 ECTS credits)								
o8-FOMA-162-mo1	Advanced FOKUS Foreign Studies							
	ECTS	20	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		P (o)					
	Method of assessment		report on practical course (approx. 30 pages) and talk including discussion (approx. 20 minutes) Language of assessment: German and/or English					
	other prerequisites		A supervisor from the Faculty, who must be an authorised examiner, is to be chosen prior to the placement.					
o8-FOMI-162-mo1	Advanced FOKUS Industrial work experience							
	ECTS	20	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		P (o)					
	Method of assessment		report on practical course (approx. 30 pages) and talk including discussion (approx. 20 minutes) Language of assessment: German and/or English					
	other prerequisites		A supervisor from the Faculty, who must be an authorised examiner, is to be chosen prior to the placement.					
o8-FOMF-162-mo1	Advanced FOKUS research lab course							
	ECTS	20	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		P (o)					
	Method of assessment		report on practical course (approx. 30 pages) and talk including discussion (approx. 20 minutes) Language of assessment: German and/or English					
Thesis (30 ECTS credits)								
o8-FOKUS-MA-161-mo1	Master-Thesis FOKUS Chemistry							
	ECTS	30	Duration	1 semester	Method of grading	numerical grade	Modul level	graduate
	Courses		No courses assigned to module					
	Method of assessment		Master's thesis (approx. 60 to 80 pages) Language of assessment: English					
	other prerequisites		Where applicable, specific modules as specified by supervisor.					
	Additional Information		Time to complete: 6 months.					