Study and Examination Plan

latriculation Fa	III 2022													
	Program-Specific Modules	Type	Assessment	Period	Status ¹	Sem.	CP		Jacobs Track Modules (General Education)	Type	Assessment	Period	Status1	Sem.
ar 1 - CHOI		,					45							
ke the mandator	v CHOICE modules listed below. This is a requirement for the CBT nr. Unit: Chemistry and Biotechnology (default minor)	ogram.*						1	Unit: Methods / Skills					
I-120	Module: General and Inorganic Chemistry (default minor)				m	1	7.5	JTMS-MAT-07					m	1
I-120-A	General and Inorganic Chemistry	Lecture	Written examination	Examination period			5	JTMS-07	Mathematical Concepts for the Sciences	Lecture	Written examination	Examination period		
I-120-B I-121	General and Inorganic Chemistry Lab Module: Introduction to Biotechnology: Microbiology and Gen	Lab	Lab report	During the semester	m	2	2.5 7.5	ITMS-SCI-17	Module: Physics for the Natural Sciences				m	2
I-121-A	Introduction to Biotechnology	Lecture	Written examination	Examination period			5	JTMS-17	Physics for the Natural Sciences	Lecture	Written examination	Examination period		
I-121-B	Biotechnology Lab	Lab	Written examination	Examination period			2.5							
	Unit: Mixed unit (BCCB and MCCB)								Unit: Language				m	
I-100 I-100-A	Module: General Biochemistry General Biochemistry	Lecture	Written examination	Examination period	m	1	7.5	JTLA-xxx	German is default language. Native German speakers take modules in another Module: Language 1	offered language.			m	1
I-100-A	General Biochemistry Lab	Lab	Lab report	During the semester			2.5	JTLA-xxx	Language 1	Seminar	Various	Various	me	
I-111	Module: General Organic Chemistry				m	2	7.5	JTLA-xxx	Module: Language 2				m	2
I-111-A I-111-B	General Organic Chemistry	Lecture	Written examination	Examination period			2.5	JTLA-xxx	Language 2	Seminar	Various	Various	me	
1-111-B	General Organic Chemistry Lab Unit: CHOICE (own selection)	Lab	Lab report	During the semester		1/2	15							_
ke two further C	CHOICE modules from those offered for all other study programs.2					1/2	13							
ar 2 - CORE	E													
e all modules li	isted below or replace mandatory elective ("me") CORE/Methods modu		suitable CORE modules fr	om other study programs. 2	2		45							
	Unit: Inorganic and Physical Chemistry and Industrial Biotechn	ology							Unit: Methods / Skills					
-440	Module: Physical Chemistry (default minor)		Written examination /	Examination period /	m	3+4	5	JTMS-SCI-16	Module: Analytical Methods				m	3
0-440-A	Physical Chemistry	Lecture	presentation /	During the semester		3+4		JTMS-16	Analytical Methods	Lecture	Written examination	Examination period		
)-441	Module: Industrial Biotechnology (default minor)			-	m	3	5	JTMS-18	Plant Metabolites and Natural Products	Lecture	Written examination	Examination period		
-441-A -442	Industrial Biotechnology	Lecture	Written examination	Examination period		4	- 5							
1-442-A	Module: Advanced Inorganic Chemistry (default minor) Advanced Inorganic Chemistry	Lecture	Written examination	Examination period	m	4	-3		Unit: Language				m	_
	Unit: Organic and Analytical Chemistry (shared with MCCB)								German is default language. Native German speakers take modules in another	offered language.				
)-423	Module: Advanced Organic Chemistry				m	3	5	JTLA-xxx	Module: Language 3				m	3
D-423-A	Advanced Organic Chemistry	Lecture	Written examination	Examination period				JTLA-xxx	Language 3	Seminar	Various	Various	me	
)-443	Module: Scientific Software and Databases				me ³	4	5	JTLA-xxx	Module: Language 4				m	4
0-443-A 0-424	Scientific Software and Databases Module: Advanced Organic and Analytical Chemistry Lab	Seminar	Term Paper	During the semester	m			JTLA-xxx	Language 4	Seminar	Various	Various	me	-
)-424-A	Advanced Organic Chemistry Lab	Lab	Lab report	During the semester		3	2.5							
)-424-B	Analytical Chemistry Lab	Lab	Lab report	During the semester			2.5							
	Unit: Advanced Chemistry and Biotechnology													
)-444	Module: Bioprocess Engineering				m	4	5							
0-444-A 0-445	Bioprocess Engineering	Lecture	Written examination	Examination period		3	5							
)-445)-445-A	Module: Advanced Biotechnology Lab Advanced Biotechnology Lab	Lab	Written examination	During the semester	m'	3	- 5							_
)-446	Module: Inorganic and Physical Chemistry Lab	Luo			m	4	5							
0-446-A	Inorganic Chemistry Lab	Lab	Lab Report	During the semester			2.5							
0-446-B ear 3 - CARE	Physical Chemistry Lab	Lab	Project	During the semester			2.5							
ear 3 - CARE	LER						45							
A-INT-900	Module: Internship / Startup and Career Skills				m	4/5	15		Unit: Big Questions					
-INT-9000	Internship / Startup and Career Skills		Report and Presentation (Business Plan)	During the 5 th semester			15	JTBQ-BQ-003	Module: Ethics in the Sciences and Technology				m	5
A-CBT-800	Module: Thesis / Seminar CBT				m	6	15	JTBQ-003	Module: Ethics in the Sciences and Technology	Lecture	Written examination / presentation	Examination period	m	
-CBT-800-T	Thesis CBT	Thesis	Project/Thesis	15 th of May			12	Take a total of 5 CP	of further Big Questions modules (each 2.5 or 5 CP) as mandatory elective	Various	Various	Various	me	
-CBT-800-S	Seminar CBT Unit: Specialization CBT (at least one specialization module from I	Seminar Piotachnology)	Presentation	During the semester	m		3 15	JTCI-CI-950	Unit: Community Impact Project Module: Community Impact Project				m	5
5 CP of specializ		sioteennology)					13	JTCI-950	Community Impact Project	Project	Project	Examination period		3
-S-CBT-801	Specialization Module:				me	-	-			11.51	,			
-CBT-801	Chemical and Pharmaceutical Technology	Lecture	Written examination	Examination period										
A-S-CBT-802	Specialization Module:				me	5	5							
-CBT-802	Organometallic Chemistry	Lecture	Oral examination	Examination period										
A-S-CBT-804	Specialization Module:				me	6	5							_
A-CBT-804	Environmental Microbiology and Biotechnology	Lecture	Written examination	Examination period										
	ctives from MCCB, EES and BCCB (see study program handbook to	for further info	rmation)		me	5/6	5/7.5							
otal CP	1. 1.2.3													
	datory, me = mandatory elective)													
	of all CHOICE / CORE / CAREER / Jacobs Track modules plea													