G/1 4 .														
Chemistr	y and Biotechnology BSc													
Matriculation Fa	II 2021							_						
	Program-Specific Modules	Type	Assessment	Period	Status <sup>1</sup>	Sem.	CP		Jacobs Track Modules (General Education)	Type	Assessment	Period	Status¹ Sen	n. CP
Year 1 - CHOIC		2					45							15
Take the mandatory	CHOICE modules listed below. This is a requirement for the CBT progra Unit: Chemistry and Biotechnology (default minor)	ım. <sup>2</sup>							Unit: Methods / Skills					10
CH-120	Module: General and Inorganic Chemistry (default minor)				m	1	7.5	JTMS-MAT-07	Module: Mathematical Concepts for the Sciences				m 1	
CH-120-A	General and Inorganic Chemistry	Lecture	Written examination	Examination period			5	JTMS-07	Mathematical Concepts for the Sciences	Lecture	Written examination	Examination period		5
CH-120-B	General and Inorganic Chemistry Lab	Lab	Lab report	During the semester			2.5							
CH-121	Module: Introduction to Biotechnology: Microbiology and Genetic Introduction to Biotechnology		or) Written examination		m	2	7.5	JTMS-SCI-17 JTMS-17	Module: Physics for the Natural Sciences		Written examination	Examination period	m 2	5
CH-121-A CH-121-B	Biotechnology Lab	Lecture Lab	Written examination	Examination period Examination period			5 2.5	JIMS-17	Physics for the Natural Sciences	Lecture	written examination	Examination period		3
	Unit: Mixed unit (BCCB and MCCB)								Unit: Language				m	5
CH-100	Module: General Biochemistry				m	1	7.5		German is default language. Native German speakers take modules in another offe	red language.				
CH-100-A	General Biochemistry	Lecture	Written examination	Examination period			5	JTLA-xxx	Module: Language 1				m 1	2.5
CH-100-B CH-111	General Biochemistry Lab  Module: General Organic Chemistry	Lab	Lab report	During the semester	m	2	2.5 7.5	JTLA-xxx JTLA-xxx	Language 1 Module: Language 2	Seminar	Various	Various	me m 2	2.5
CH-111-A	General Organic Chemistry	Lecture	Written examination	Examination period			5	JTLA-xxx	Language 2	Seminar	Various	Various	me 2	2.5
CH-111-B	General Organic Chemistry Lab	Lab	Lab report	During the semester			2.5							
	Unit: CHOICE (own selection)					1/2	15							
Take two further CH	OICE modules from those offered for all other study programs. <sup>2</sup>													
Year 2 - CORE														
	ed below or replace mandatory elective ("me") CORE/Methods modules	(15 CP) by suite	ble CORE modules from oth	her study programs 2			45							15
Tune an mountes tist	Unit: Inorganic and Physical Chemistry and Industrial Biotechno		on COME mountes from our	ici sinay programs.					Unit: Methods / Skills					10
CO-440	Module: Physical Chemistry (default minor)	iogy			m	3+4	5	JTMS-SCI-16	Module: Analytical Methods				m 3	5
CO-440-A	Physical Chemistry I	Lecture	Written examination /	Examination period		3	2.5	JTMS-16	Analytical Methods	Lecture	Written examination	Examination period	3	3
CO-440-B	Physical Chemistry II	Lecture	presentation	During the semester	-	4	2.5		Module: Plant Metabolites and Natural Products				me <sup>3</sup> 4	- 5
CO-441	Module: Industrial Biotechnology (default minor)				m	3	5	JTMS-18	Plant Metabolites and Natural Products	Lecture	Written examination	Examination period		
CO-441-A CO-442	Industrial Biotechnology	Lecture	Written examination	Examination period	m	4	5							
CO-442-A	Module: Advanced Inorganic Chemistry (default minor)  Advanced Inorganic Chemistry	Lecture	Written examination	Examination period	m	•	3		Unit: Language				m	5
	Unit: Organic and Analytical Chemistry (shared with MCCB)								German is default language. Native German speakers take modules in another offe	red language.				
CO-423	Module: Advanced Organic Chemistry				m	3	5	JTLA-xxx	Module: Language 3				m 3	2.5
CO-423-A	Advanced Organic Chemistry	Lecture	Written examination	Examination period				JTLA-xxx	Language 3	Seminar	Various	Various	me	
CO-443	Module: Scientific Software and Databanks				me <sup>3</sup>	4	5	JTLA-xxx	Module: Language 4				m 4	2.5
CO-443-A CO-424	Scientific Software and Databanks  Module: Advanced Organic and Analytical Chemistry Lab	Seminar	Reports	During the semester	m	3	5	JTLA-xxx	Language 4	Seminar	Various	Various	me	
CO-424-A	Advanced Organic and Analytical Chemistry Lab	Lab	Lab report	During the semester	m	3	2.5							
CO-424-B	Analytical Chemistry Lab	Lab	Lab report	During the semester			2.5							
	Unit: Advanced Chemistry and Biotechnology													
CO-444	Module: Bioprocess Engineering				m	4	5							
CO-444-A CO-445	Bioprocess Engineering  Module: Advanced Biotechnology Lab	Lecture	Written examination	Examination period	- 4	•	5							
CO-445 CO-445-A	Advanced Biotechnology Lab	Lab	Lab Report	During the semester	m'	3	_ 3							
CO-446	Module: Inorganic and Physical Chemistry Lab	Lato			m	4	5							
CO-446-A	Inorganic Chemistry Lab	Lab	Lab Report	During the semester			2.5							
CO-446-B Year 3 - CARE	Physical Chemistry Lab	Lab	Lab Report	During the semester			2.5							
rear 3 - CARE	DK						45							15
CA-INT-900	Module: Internship / Startup and Career Skills				m				Unit: Big Questions					10
			December of December in			4/5	15							
CA-INT-9000	Internship / Startup and Career Skills		Report and Presentation (Business Plan)	During the 5 <sup>th</sup> semester			15	JTBQ-BQ-003	Module: Ethics in the Sciences and Technology				m 5	5
CA-CBT-800	Module: Thesis / Seminar CBT				m			JTBQ-003	Module: Ethics in the Sciences and Technology		Written examination /	Examination period	m	5
CA-CBT-800-T	Thesis CBT	Thesis	Project/Thesis	ash car		6	15 12		of further Big Questions modules (each 2.5 or 5 CP) as mandatory elective	Lecture Various	presentation Various	Various	me	5
CA-CBT-800-1 CA-CBT-800-S	Seminar CBT	Seminar	Presentation	15 <sup>th</sup> of May During the semester			12	Take a total of 5 CP	Unit: Community Impact Project	various	various	various	ilic	5
051 000 5	Unit: Specialization CBT (at least one specialization module from Bi		resemble	_ uning the semester	m		15	JTCI-CI-950	Module: Community Impact Project				m 5	
d 15 CP of specializa								JTCI-950	Community Impact Project	Project	Project	Examination period		
CA-S-CBT-801	Specialization Module:				me	5	5							
CA-CBT-801	Chemical and Pharmaceutical Technology	Lecture	Written examination	Examination period										
CA-S-CBT-802	Specialization Module:				me	5	5							
CA-CBT-802	Organometallic Chemistry	Lecture	Oral examination	Examination period										
CA-S-CBT-804	Specialization Module:		Walter and the state of	Paradian' 1	me	5	5							
CIT CDT 001	Environmental Microbiology and Biotechnology ves from MCCB, EES and BCCB (see study program handbook for	Lecture	Written examination	Examination period	me	5/6	5/7.5							
Total CP	ves from MCCB, EES and BCCB (see study program handbook for	iui iner miorma	ation)		me	5/6	5//.5							180
rotai CP														180

<sup>&</sup>lt;sup>1</sup> Status (m = mandatory, me = mandatory elective)

For a full listing of all CHOICE / CORE / CAREER / Jacobs Track modules please consult the CampusNet online catalogue and /or the study program handbooks.

3 Module can be replaced with a CORE module from another study program in order to pursue a minor