

Biochemistry and Cell Biology

Matriculation Fall 2019

Program-Specific Modules							Jacobs Track Modules (General Education)						
Type	Assessment	Period	Status ¹	Sem.	CP		Type	Assessment	Period	Status ¹	Sem.	CP	
Year 1 - CHOICE							Year 1 - CHOICE						
Take the mandatory CHOICE modules listed below, this is a requirement for the BCCB program.							Take the mandatory CHOICE modules listed below, this is a requirement for the BCCB program.						
Unit: General BCCB (Default minor)							Unit: Skills / Methods						
15							10						
CH-100	Module: General Biochemistry (Default minor)			m	1	7.5	JTMS-MAT-07	Module: Mathematical Concepts for the Sciences			m	1	5
CH-100-A	General Biochemistry	Lecture	Written examination		Examination period	5	JTMS-07	Mathematical Concepts for the Sciences	Lecture	Written examination		Examination period	
CH-100-B	General Biochemistry Lab	Lab	Lab report		During the semester	2.5							
CH-101							CH-101						
Module: General Cell Biology (Default minor)							Module: Physics for the Natural Sciences						
m 2 7.5							m 2 5						
CH-101-A	General Cell Biology	Lecture	Written examination		Examination period	5	JTMS-17	Physics for the Natural Sciences	Lecture	Written examination		Examination period	
CH-101-B	General Cell Biology Lab	Lab	Lab report		During the semester	2.5							
Unit: Chemistry							Unit: Language						
15							m 5						
CH-120							CH-120						
Module: General and Inorganic Chemistry							Module: Language 1						
m 1 7.5							German is default language. Native German speakers take modules in another offered language.						
CH-120-A	General and Inorganic Chemistry	Lecture	Written examination		Examination period	5	Module Code	Module: Language 1			me	1	2.5
CH-120-B	General and Inorganic Chemistry Lab	Lab	Lab report		During the semester	2.5	Component number	Language 1	Seminar	Various		Various	me
CH-111							CH-111						
Module: General Organic Chemistry							Module: Language 2						
m 2 7.5							me 2 2.5						
CH-111-A	General Organic Chemistry	Lecture	Written examination		Examination period	2.5	Component number	Language 2	Seminar	Various		Various	me
CH-111-B	General Organic Chemistry Lab	Lab	Lab report		During the semester	5							
Unit: CHOICE (own selection)							Unit: CHOICE (own selection)						
1/2 15							1/2 15						
Students take two further CHOICE modules from those offered for all other study programs. ²							Students take two further CHOICE modules from those offered for all other study programs. ²						
Year 2 - CORE							Year 2 - CORE						
45							45						
Take all CORE modules listed below or replace the mandatory elective (me) modules (15 CP) with suitable CORE modules from other study programs ²							Take all CORE modules listed below or replace the mandatory elective (me) modules (15 CP) with suitable CORE modules from other study programs ²						
Unit: Microbiology, Infection and Immunity (Default minor)							Unit: Skills / Methods						
15							10						
CO-400	Module: Microbiology			m	3	5	Module: Select from the following Skills/Methods modules offered in the Fall term						
CO-400-A	Microbiology	Lecture	Written examination		Examination period	5	JTMS-SKI-14	Module: Programming in Python			me ³	3	5
CO-408	Module: Microbiology Lab			me	3	2.5	JTMS-14	Programming in Python	Lecture	Written examination		Examination period	
CO-408-A	Microbiology Lab	Lab	Lab report		During the semester	2.5	JTMS-SCI-16	Module: Analytical Methods			me ³	3	5
CO-409	Module: Microbiology Seminar			me	3	2.5	JTMS-16	Analytical Methods	Lecture	Written examination		Examination period	
CO-409-A	Microbiology Seminar	Seminar	Oral presentation		Examination period	2.5	JTMS-SCI-18	Module: Plant Metabolites and Natural Products			m	4	5
CO-401	Module: Infection and Immunity			me	4	7.5	JTMS-18	Plant Metabolites and Natural Products	Lecture	Written examination		Examination period	
CO-401-A	Immunology	Lecture	Written examination		Examination period	5							
CO-401-B	Microbial Pathogenicity	Lecture	Written examination		Examination period	2.5							
Unit: Advanced Biochemistry							Unit: Language						
15							m 5						
CO-402							CO-402						
Module: Advanced Biochemistry I							Module: Language 3						
m 3 5							German is default language. Native German speakers take modules in another offered language.						
CO-402-A	Advanced Biochemistry I	Lecture	Written examination		Examination period	5	Module Code	Module: Language 3			me	3	2.5
CO-403	Module: Advanced Biochemistry II			m	4	5	Component number	Language 3	Seminar	Various		Various	me
CO-403-A	Advanced Biochemistry II	Lecture	Written examination		Examination period	5	Module Code	Module: Language 4			me	4	2.5
CO-404	Module: Advanced Biochemistry Lab			m	4	5	Component number	Language 4	Seminar	Various		Various	me
CO-404-A	Advanced Biochemistry Laboratory Course	Lab	Lab report		During the semester	5							
Unit: Advanced Cell Biology							Unit: Advanced Cell Biology						
15							15						
CO-405	Module: Advanced Cell Biology I			m	3	5							
CO-405-A	Advanced Cell Biology I	Lecture	Written examination		Examination period	5							
CO-407	Module: Advanced Cell Biology Lab			m	3	5							
CO-407-A	Advanced Cell Biology Laboratory Course	Lab	Lab report		During the semester	5							
CO-406	Module: Advanced Cell Biology II			m	4	5							
CO-406-A	Advanced Cell Biology II	Lecture	Written examination		Examination period	5							
Year 3 - CAREER							Year 3 - CAREER						
45							45						
Take a total of 10 CP of Big Questions modules with each 2.5 or 5 CP							Take a total of 10 CP of Big Questions modules with each 2.5 or 5 CP						
CA-INT-900							Unit: Big Questions						
Module: Internship / Startup and Career Skills							Module: Big Questions						
m 4/5 15							m 5/6						
CA-INT-900-0	Internship / Startup and Career Skills	Internship	Report or Businessplan		During the 5 th semester	15	Take a total of 10 CP of Big Questions modules with each 2.5 or 5 CP						
CA-BCCB-800	Module: Bachelor Thesis and Seminar BCCB			m	6	15	Unit: Community Impact Project						
CA-BCCB-800-T	Thesis BCCB	Thesis	Thesis		15th of May	12	Module: Community Impact Project						
CA-BCCB-800-S	Seminar BCCB	Seminar	Presentation		During the semester	3	Component number Community Impact Project Project Examination period						
Unit: Specialization BCCB							Unit: Specialization BCCB						
15							15						
Take a total of 15 CP of specialization modules							Take a total of 15 CP of specialization modules						
CA-S-BCCB-802	Specialization Module: Experimental Strategy Design			me	5	5							
CA-BCCB-802	Experimental Strategy Design	Seminar	Term Paper		During the semester	5							
CA-S-BCCB-803	Specialization Module: RNA Biochemistry			me	5	5							
CA-BCCB-803	RNA Biochemistry	Seminar	Oral examination		Examination period	5							
CA-S-BCCB-804	Specialization Module: Biomedicine			me	6	5							
CA-BCCB-804	Biomedicine	Seminar	Poster Presentation		During the semester	5							
CA-S-xxx	Specialization electives (from Chemistry and MCCB) (see BCCB study program handbook)2			me	5/6	5							
Total CP							Total CP						
180							180						