

Study and Examination Plan

Biochemistry and Cell Biology																																																																															
Matriculation Fall 2022																																																																															
Program-Specific Modules					Type	Assessment	Period	Status ¹	Sem.	CP	Jacobs Track Modules (General Education)					Type	Assessment	Period	Status ¹	Sem.	CP																																																										
Year 1 - CHOICE										45										15																																																											
<i>Take the mandatory CHOICE modules listed below; this is a requirement for the BCCB program.</i>																																																																															
Unit: General BCCB (Default minor)										15										Unit: Skills / Methods										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											Lecture	Written examination	Examination period																																																									
CH-100-B	General Biochemistry Lab	Lab	Lab report	During the semester					2.5																																																																						
CH-101 Module: General Cell Biology (Default minor)										m 2 7.5										JTMS-SCI-17 Module: Physics for the Natural Sciences										m 2 5																																																	
CH-101-A	General Cell Biology	Lecture	Written examination	Examination period					5											Lecture	Written examination	Examination period																																																									
CH-101-B	General Cell Biology Lab	Lab	Lab report	During the semester					2.5																																																																						
Unit: Chemistry										15										Unit: Language										m 5																																																	
CH-120 Module: General and Inorganic Chemistry										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																																																							
CH-111 Module: General Organic Chemistry										m 2 7.5										Module Code Module: Language 2										me 2 2.5																																																	
CH-111-A	General Organic Chemistry	Lecture	Written examination	Examination period					2.5											Component number	Language 2	Seminar	Various	Various																																																							
CH-111-B	General Organic Chemistry Lab	Lab	Lab report	During the semester					5																																																																						
Unit: CHOICE (own selection)										1/2 15																																																																					
<i>Students take two further CHOICE modules from those offered for all other study programs.²</i>																																																																															
Year 2 - CORE										45										15																																																											
<i>Take all CORE modules listed below or replace the mandatory elective (me) modules (10CP) with suitable CORE modules from other study programs.²</i>																																																																															
Unit: Microbiology, Infection and Immunity										15										Unit: Skills / Methods										10																																																	
CO-400 Module: Microbiology (Default minor)										m 3 5										JTMS-SCI-19 Module: Introduction to Bioinformatics										me³ 3 5																																																	
CO-400-A	Microbiology	Lecture	Written examination	Examination period					5											JTMS-19	Bioinformatics	Lecture	Written examination	Examination period																																																							
CO-408	Module: Microbiology Lab								me ³ 3 2.5											JTMS-SCI-16	Analytical Methods																																																										
CO-408-A	Microbiology Lab	Lab	Lab report	During the semester					2.5											JTMS-16	Analytical Methods	Lecture	Written examination	Examination period																																																							
CO-409 Module: Microbiology Seminar (for minor students only, default minor)³										me 3 2.5										JTMS-SCI-18 Module: Plant Metabolism and Natural Products										m 4 5																																																	
CO-409-A	Microbiology Seminar	Seminar	Presentation	Examination period					2.5											JTMS-18	Plant Metabolism and Natural Products	Lecture	Written examination	Examination period																																																							
CO-401 Module: Infection and Immunity (Default minor)										me³ 4 7.5										Unit: Language										m 5																																																	
CO-401-A	Immunology	Lecture	Written examination	Examination period					5											German is default language. Native German speakers take modules in another offered language.																																																											
CO-401-B	Microbial Pathogenicity	Lecture	Oral examination	During the semester					2.5											Module Code Module: Language 3										me 3 2.5																																																	
Unit: Advanced Biochemistry										15										Component number	Language 3	Seminar	Various	Various																																																							
CO-402 Module: Advanced Biochemistry I										m 3 5										Module Code Module: Language 4										me 4 2.5																																																	
CO-402-A	Metabolic Pathways	Lecture	Written examination	Examination period					5											Component number	Language 4	Seminar	Various	Various																																																							
CO-403 Module: Advanced Biochemistry II										m 4 5																																																																					
CO-403-A	Molecular Genetics	Lecture	Written examination	Examination period					5																																																																						
CO-404 Module: Advanced Biochemistry Lab										m 4 5																																																																					
CO-404-A	Advanced Biochemistry Laboratory Course	Lab	Lab report	During the semester					5																																																																						
Unit: Advanced Cell Biology										15																																																																					
CO-405 Module: Advanced Cell Biology I										m 3 5																																																																					
CO-405-A	From Cells to Tissues	Lecture	Written examination	Examination period					5																																																																						
CO-407 Module: Advanced Cell Biology Lab										m 3 5																																																																					
CO-407-A	Cellular Compartments	Lab	Lab report	During the semester					5																																																																						
CO-406 Module: Advanced Cell Biology II										m 4 5																																																																					
CO-406-A	From Genes to Organisms	Lecture	Written examination	Examination period					5																																																																						
Year 3 - CAREER										45										15																																																											
CA-INT-900 Module: Internship / Startup and Career Skills										m 4/5 15										Unit: Big Questions										10																																																	
CA-INT-900-0	Internship / Startup and Career Skills	Internship	Report or Businessplan	During the 5 th semester					15											Module: Big Questions										m 5/6																																																	
CA-BCCB-800 Module: Bachelor Thesis and Seminar BCCB										m 6 15										Take a total of 10 CP of Big Questions modules with each 2.5 or 5 CP										Lecture										Various										Examination period										me 10																			
CA-BCCB-800-T	Thesis BCCB	Thesis	Thesis	15th of May					12											Unit: Community Impact Project										5																																																	
CA-BCCB-800-S	Seminar BCCB	Seminar	Presentation	During the semester					3											JTICP- Module: Community Impact Project										m 5 5																																																	
Unit: Specialization BCCB										m 15										Component number										Community Impact Project										Project										Project										Examination period																			
<i>Take a total of 15 CP of specialization modules.⁴</i>																																																																															
CA-S-BCCB-801 Specialization Module: Current Topics in Molecular Life Sciences										me 5 5																																																																					
CA-S-BCCB-801	Current Topics in Molecular Life Sciences	Seminar	Presentation	During the semester					5																																																																						
CA-S-BCCB-802 Specialization Module: Experimental Strategy Design										me 5 5																																																																					
CA-S-BCCB-802	Experimental Strategy Design	Seminar	Term Paper	During the semester					5																																																																						
CA-S-BCCB-804 Specialization Module: Biomedicine										me 6 5																																																																					
CA-S-BCCB-804	Biomedicine	Seminar	Poster Presentation	During the semester					5																																																																						
CA-S-xxx Specialization electives (see BCCB study program handbook)										me 5/6 5																																																																					
Total CP										180																																																																					

¹ Status (m = mandatory, me = mandatory elective)

² 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 Students minoring in BCCB take the module "Microbiology Seminar" (see handbook for details)

⁴ Module will be replaced with a CORE module from another study program in order to pursue a minor

⁵ Note that 15 CP specialization modules need to be taken, of which a minimum of 10 CP must be major-specific and max. 5 CP can be major-related