

Appendix 1 - Mandatory Module and Examination Plan

Biochemistry and Cell Biology																							
Matriculation Fall 2021																							
Program-Specific Modules							Type	Assessment	Period	Status <sup>1</sup>	Sem.	CP	Jacobs Track Modules (General Education)										
							Type	Assessment	Period	Status <sup>1</sup>	Sem.	CP											
<b>Year 1 - CHOICE</b>													<b>45</b>										
<i>Take the mandatory CHOICE modules listed below, this is a requirement for the BCCB program.</i>																							
<b>Unit: General BCCB (Default minor)</b>													<b>15</b>										
<b>CH-100</b>	<b>Module: General Biochemistry (Default minor)</b>										<b>m</b>	<b>1</b>	<b>7.5</b>	<b>Unit: Skills / Methods</b>									
CH-100-A	General Biochemistry						Lecture	Written examination	Examination period				5	<b>Unit: Mathematical Concepts for the Sciences</b>									
CH-100-B	General Biochemistry Lab						Lab	Lab report	During the semester				2.5	JTMS-MAT-07 <b>Module: Mathematical Concepts for the Sciences</b>									
														Lecture	Written examination	Examination period							
<b>CH-101</b>	<b>Module: General Cell Biology (Default minor)</b>										<b>m</b>	<b>2</b>	<b>7.5</b>	<b>Unit: Physics for the Natural Sciences</b>									
CH-101-A	General Cell Biology						Lecture	Written examination	Examination period				5	JTMS-SCI-17 <b>Module: Physics for the Natural Sciences</b>									
CH-101-B	General Cell Biology Lab						Lab	Lab report	During the semester				2.5	JTMS-17 <b>Module: Physics for the Natural Sciences</b>									
														Lecture	Written examination	Examination period							
<b>Unit: Chemistry</b>													<b>15</b>										
<b>CH-120</b>	<b>Module: General and Inorganic Chemistry</b>										<b>m</b>	<b>1</b>	<b>7.5</b>	<b>Unit: Language</b>									
CH-120-A	General and Inorganic Chemistry						Lecture	Written examination	Examination period				5	German is default language. Native German speakers take modules in another offered language.									
CH-120-B	General and Inorganic Chemistry Lab						Lab	Lab report	During the semester				2.5	<b>Module Code</b> <b>Module: Language 1</b>									
														Component number	Language 1	Seminar	Various	Various		<b>me</b>	<b>1</b>	<b>2.5</b>	
<b>CH-111</b>	<b>Module: General Organic Chemistry</b>										<b>m</b>	<b>2</b>	<b>7.5</b>	<b>Module Code</b> <b>Module: Language 2</b>									
CH-111-A	General Organic Chemistry						Lecture	Written examination	Examination period				2.5	Component number									
CH-111-B	General Organic Chemistry Lab						Lab	Lab report	During the semester				5	Language 2									
														Seminar	Various	Various		<b>me</b>	<b>2</b>	<b>2.5</b>			
<b>Unit: CHOICE (own selection)</b>													<b>1/2 15</b>										
<i>Students take two further CHOICE modules from those offered for all other study programs.<sup>2</sup></i>																							
<b>Year 2 - CORE</b>													<b>45</b>										
<i>Take all CORE modules listed below or replace the mandatory elective (me) modules (10CP) with suitable CORE modules from other study programs<sup>2</sup></i>																							
<b>Unit: Microbiology, Infection and Immunity</b>													<b>15</b>										
<b>CO-400</b>	<b>Module: Microbiology (Default minor)</b>										<b>m</b>	<b>3</b>	<b>5</b>	<b>Unit: Skills / Methods</b>									
CO-400-A	Microbiology						Lecture	Written examination	Examination period				5	Module: Select from the following Skills/Methods modules offered in the Fall term or replace the mandatory elective (me) module (5CP) with suitable CORE modules from other study programs.									
<b>CO-408</b>	<b>Module: Microbiology Lab</b>										<b>me<sup>3</sup></b>	<b>3</b>	<b>2.5</b>	<b>Unit: Introduction to Bioinformatics</b>									
CO-408-A	Microbiology Lab						Lab	Lab report	During the semester				2.5	JTMS-SCI-19 <b>Module: Introduction to Bioinformatics</b>									
														Lecture	Written examination	Examination period			<b>me<sup>3</sup></b>	<b>3</b>	<b>5</b>		
<b>CO-409</b>	<b>Module: Microbiology Seminar (for minor students only, default minor)*</b>										<b>me</b>	<b>3</b>	<b>2.5</b>	<b>Unit: Analytical Methods</b>									
CO-409-A	Microbiology Seminar						Seminar	Presentation	Examination period				2.5	JTMS-SCI-16 <b>Module: Analytical Methods</b>									
														Lecture	Written examination	Examination period			<b>me<sup>3</sup></b>	<b>3</b>	<b>5</b>		
<b>CO-401</b>	<b>Module: Infection and Immunity (Default minor)</b>										<b>me<sup>3</sup></b>	<b>4</b>	<b>7.5</b>	<b>Unit: Plant Metabolism and Natural Products</b>									
CO-401-A	Immunology						Lecture	Written examination	Examination period				5	JTMS-SCI-18 <b>Module: Plant Metabolism and Natural Products</b>									
CO-401-B	Microbial Pathogenicity						Lecture	Oral examination	During the semester				2.5	JTMS-18 <b>Module: Plant Metabolism and Natural Products</b>									
														Lecture	Written examination	Examination period			<b>m</b>	<b>4</b>	<b>5</b>		
<b>Unit: Advanced Biochemistry</b>													<b>15</b>										
<b>CO-402</b>	<b>Module: Advanced Biochemistry I</b>										<b>m</b>	<b>3</b>	<b>5</b>	<b>Unit: Language</b>									
CO-402-A	Metabolic Pathways						Lecture	Written examination	Examination period				5	German is default language. Native German speakers take modules in another offered language.									
<b>CO-403</b>	<b>Module: Advanced Biochemistry II</b>										<b>m</b>	<b>4</b>	<b>5</b>	<b>Module Code</b> <b>Module: Language 3</b>									
CO-403-A	Molecular Genetics						Lecture	Written examination	Examination period				5	Component number									
														Language 3	Seminar	Various	Various		<b>me</b>				
<b>CO-404</b>	<b>Module: Advanced Biochemistry Lab</b>										<b>m</b>	<b>4</b>	<b>5</b>	<b>Module Code</b> <b>Module: Language 4</b>									
CO-404-A	Advanced Biochemistry Laboratory Course						Lab	Lab report	During the semester				5	Component number									
														Language 4	Seminar	Various	Various		<b>me</b>	<b>4</b>	<b>2.5</b>		
<b>Unit: Advanced Cell Biology</b>													<b>15</b>										
<b>CO-405</b>	<b>Module: Advanced Cell Biology I</b>										<b>m</b>	<b>3</b>	<b>5</b>										
CO-405-A	From Cells to Tissues						Lecture	Written examination	Examination period				5										
<b>CO-407</b>	<b>Module: Advanced Cell Biology Lab</b>										<b>m</b>	<b>3</b>	<b>5</b>										
CO-407-A	Cellular Compartments						Lab	Lab report	During the semester				5										
<b>CO-406</b>	<b>Module: Advanced Cell Biology II</b>										<b>m</b>	<b>4</b>	<b>5</b>										
CO-406-A	From Genes to Organisms						Lecture	Written examination	Examination period				5										
<b>Year 3 - CAREER</b>													<b>45</b>										
<b>CA-INT-900</b>	<b>Module: Internship / Startup and Career Skills</b>										<b>m</b>	<b>4/5</b>	<b>15</b>	<b>Unit: Big Questions</b>									
CA-INT-900-0	Internship / Startup and Career Skills						Internship	Report or Businessplan	During the 5 <sup>th</sup> semester				15	<b>Module: Big Questions</b>									
																			<b>m</b>	<b>5/6</b>			
<b>CA-BCCB-800</b>	<b>Module: Bachelor Thesis and Seminar BCCB</b>										<b>m</b>	<b>6</b>	<b>15</b>	Take a total of 10 CP of Big Questions modules with each 2.5 or 5 CP									
CA-BCCB-800-T	Thesis BCCB						Thesis	Thesis	15th of May				12	<b>Unit: Community Impact Project</b>									
CA-BCCB-800-S	Seminar BCCB						Seminar	Presentation	During the semester				3	JTICIP- <b>Module: Community Impact Project</b>									
														Component number	Community Impact Project	Project	Project	Examination period		<b>m</b>	<b>5</b>	<b>5</b>	
<b>Unit: Specialization BCCB</b>													<b>15</b>										
<i>Take a total of 15 CP of specialization modules</i>																							
<b>CA-S-BCCB-802</b>	<b>Specialization Module: Experimental Strategy Design</b>										<b>me</b>	<b>5</b>	<b>5</b>										
CA-BCCB-802	Experimental Strategy Design						Seminar	Term Paper	During the semester														
<b>CA-S-BCCB-803</b>	<b>Specialization Module: RNA Biochemistry</b>										<b>me</b>	<b>5</b>	<b>5</b>										
CA-BCCB-803	RNA Biochemistry						Seminar	Oral examination	During the semester														
<b>CA-S-BCCB-804</b>	<b>Specialization Module: Biomedicine</b>										<b>me</b>	<b>6</b>	<b>5</b>										
CA-BCCB-804	Biomedicine						Seminar	Poster Presentation	During the semester														
CA-S-xxx	Specialization electives (from CBT and MCCB) (see BCCB study program handbook)										<b>me</b>	<b>5/6</b>	<b>5</b>										
<b>Total CP</b>																		<b>180</b>					