

Appendix 1a - Mandatory Module and Examination Plan for World Track

Medicinal Chemistry and Chemical Biology – World Track										
Matriculation Fall 2018										
Program-Specific Modules					Jacobs Track Modules (General Education)					
Type	Status ¹	Semester	Credits		Type	Status ¹	Semester	Credits		
Year 1 - CHOICE					45					20
<i>Take the two mandatory CHOICE modules listed below, these are a requirement for the MCCB program.</i>										
CH02-BioChem	Module: Biochemistry and Molecular Biology		m	15	JT-ME-MethodsMath	Module: Methods / Mathematics		m	7,5	
CH02-520101	General Biochemistry and Molecular Biology I	Lecture	m	1	5	JT-ME-120106	Applied Calculus I	Lecture	m	1
CH02-520111	General Biochemistry and Molecular Biology I Lab	Lab	m	1	2,5	JT-ME-120107	Applied Calculus II	Lecture	m	1
CH02-520201	General Biochemistry and Molecular Biology II	Lecture	m	2	5	JT-ME-120101	Mathematical Concepts in the Sciences	Lecture	m	2
CH02-520121	General Biochemistry and Molecular Biology II Lab	Lab	m	2	2,5	JT-SK-Skills	Module: Skills		m	2,5
CH03-OrgChem	Module: Organic Chemistry		m	15	JT-SK-990103	Module: Skills		m	2,5	
CH03-400102	Organic Chemistry I	Lecture	m	1	5	JT-SK-990103	Scientific and Experimental Skills	Lecture	m	1
CH03-400112	Organic Chemistry I Lab	Lab	m	1	2,5	JT-TA-TriArea	Module: Triangle Area		m	5
CH03-400103	Organic Chemistry II	Lecture	m	2	5		Take two courses from the triangle (BUSINESS, TECHNOLOGY & INNOVATION, SOCIETAL CONTEXT) area. Each counts 2,5 ECTS ³			
CH03-400113	Organic Chemistry II Lab	Lab	m	2	2,5	JT-LA-Language	Module: Language		m	5
	Module: CHOICE (own selection)		e	1/2	15		Take two German courses (2,5 ECTS each). Native German speakers take courses in another offered language			
<i>Students take one further CHOICE module from those offered for all other study programs. ²</i>										
Year 2 - CORE					45					20
<i>Take all three modules or replace one with a CORE module from a different study program. ²</i>										
CO04-ChemBio	Module: Chemical Biology		me	15	JT-ME-MethodsMath	Module: Methods / Mathematics		m	7,5	
CO04-520203	Introduction to Chemical Biology	Lecture	m	3	5	JT-ME-400205	Methods in Analytical Science	Lecture/Lab	m	3
CO04-520213	Advanced Biochemistry Lab	Lab	m	4	5		Take two Methods (mandatory) elective courses (2,5 ECTS each). ²			
CO04-520223	Biological Activity - from bench to bedside	Lecture	m	4	5	JT-TA-TriArea	Module: Triangle Area		m	7,5
CO05-DrugProd	Module: Drug Action and Production		me	15		Take three courses from the triangle (BUSINESS, TECHNOLOGY & INNOVATION, SOCIETAL CONTEXT) area. Each counts 2,5 ECTS ³				
CO05-400241	Pharmaceutical Analytical Chemistry	Lecture	m	3	2,5	JT-LA-Language	Module: Language		m	5
CO05-400243	Pharmaceutical Analytical Chemistry Lab	Lab	m	3	2,5		Take two German courses (2,5 ECTS each). Native German speakers take courses in another offered language			
CO05-400234	Biopharmaceutical Production Lab	Lab	m	3	2,5	CA01-CarAdv	Module: Career Advising⁴		m	5
CO05-400233	Biopharmaceuticals	Lecture	m	4	2,5					
CO05-400244	Pharmaceutical Chemistry	Lecture	m	4	5					
CO06-DrugDev	Module: Drug Development		me	15						
CO06-400272	Medicinal Chemistry	Lecture	m	3	5					
CO06-400271	Medicinal Chemistry Lab (Intersession)	Lab	m	3	5					
CO06-400275	Medicinal Chemistry of Fluorine and Phosphorus	Lecture	m	4	2,5					
CO06-400274	Introduction to Molecular Simulations	Lecture	m	4	2,5					
Year 3 - CAREER					45					5
CA02 / CA03	Module: Internship / Study Abroad		m	5	20	JT-SK-Skills	Module: Skills		m	2,5
						JT-SK-990104	Advanced Scientific and Experimental Skills	Lecture	m	6
CA04-MCCB	Module: Project/Thesis MCCB		m	15		JT-TA-TriArea	Module: Triangle Area		m	2,5
CA04-520303	Project MCCB	m	m	6	5		Take one course from the triangle (BUSINESS, TECHNOLOGY & INNOVATION, SOCIETAL CONTEXT) area. Each counts 2,5 ECTS ³			
CA04-520304	Thesis MCCB	m	m	6	10	CA01-CarAdv	Module: Career Advising⁴		m	5
CAS-WT-MCCB	Module: Specialization Area MCCB		m	10						
	Take 10 ECTS of specialization courses ²				me	5/6	10			
Total ECTS										180

¹ Status (m = mandatory, e = elective, 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 module handbook (on our website).

³ You are required to take six Triangle Area courses in total. Select two from each of the three triangle areas (BUSINESS, TECHNOLOGY & INNOVATION, SOCIETAL CONTEXT).

⁴ Mandatory component of the Jacobs University's Counseling and Advising Scheme.

Appendix 1b - Mandatory Module and Examination Plan for Campus Track

Medicinal Chemistry and Chemical Biology – Campus Track												
Matriculation Fall 2018												
Program-Specific Modules					Jacobs Track Modules (General Education)							
Type	Status ¹	Semester	Credits		Type	Status ¹	Semester	Credits				
Year 1 - CHOICE					45					20		
<i>Take the two mandatory CHOICE modules listed below, these are a requirement for the MCCB program.</i>												
CH02-BioChem	Module: Biochemistry and Molecular Biology			m	15	JT-ME-MethodsMath	Module: Methods / Mathematics			m	7,5	
CH02-520101	General Biochemistry and Molecular Biology I	Lecture	m	1	5	JT-ME-120106	Applied Calculus I	Lecture	m	1	2,5	
CH02-520111	General Biochemistry and Molecular Biology I Lab	Lab	m	1	2,5	JT-ME-120107	Applied Calculus II	Lecture	m	1	2,5	
CH02-520201	General Biochemistry and Molecular Biology II	Lecture	m	2	5	JT-ME-120101	Mathematical Concepts in the Sciences	Lecture	m	2	2,5	
CH02-520121	General Biochemistry and Molecular Biology II Lab	Lab	m	2	2,5	JT-SK-Skills	Module: Skills			m	2,5	
CH03-OrgChem	Module: Organic Chemistry			m	15	JT-SK-990103	Scientific and Experimental Skills	Lecture	m	1	2,5	
CH03-400102	Organic Chemistry I	Lecture	m	1	5	JT-TA-TriArea	Module: Triangle Area			m	5	
CH03-400112	Organic Chemistry I Lab	Lab	m	1	2,5	Take two courses from the triangle (BUSINESS, TECHNOLOGY & INNOVATION, SOCIETAL CONTEXT) area. Each counts 2,5 ECTS ³						
CH03-400103	Organic Chemistry II	Lecture	m	2	5	JT-LA-Language	Module: Language			m	5	
CH03-400113	Organic Chemistry II Lab	Lab	m	2	2,5	Take two German courses (2,5 ECTS each). Native German speakers take courses in another offered language						
Module: CHOICE (own selection)				e	1/2	15	CA01-CarAdv	Career Advising⁴			20	
<i>Students take one further CHOICE module from those offered for all other study programs. ²</i>												
Year 2 - CORE					45					20		
<i>Take all three modules or replace one with a CORE module from a different study program. ²</i>												
CO04-ChemBio	Module: Chemical Biology			me	15	JT-ME-MethodsMath	Module: Methods / Mathematics			m	7,5	
CO04-520203	Introduction to Chemical Biology	Lecture	m	3	5	JT-ME-400205	Methods in Analytical Science	Lecture/Lab	m	3	2,5	
CO04-520213	Advanced Biochemistry Lab	Lab	m	4	5	Take two Methods (mandatory) elective courses (2,5 ECTS each). ²						
CO04-520223	Biological Activity - from bench to bedside	Lecture	m	4	5	JT-TA-TriArea	Module: Triangle Area			m	7,5	
CO05-DrugProd	Module: Drug Action and Production			me	15	Take three courses from the triangle (BUSINESS, TECHNOLOGY & INNOVATION, SOCIETAL CONTEXT) area. Each counts 2,5 ECTS ³						
CO05-400241	Pharmaceutical Analytical Chemistry	Lecture	m	3	2,5	JT-LA-Language	Module: Language			m	5	
CO05-400243	Pharmaceutical Analytical Chemistry Lab	Lab	m	3	2,5	Take two German courses (2,5 ECTS each). Native German speakers take courses in another offered language						
CO05-400234	Biopharmaceutical Production Lab	Lab	m	3	2,5	CA01-CarAdv	Career Advising⁴			5		
CO05-400233	Biopharmaceuticals	Lecture	m	4	2,5							
CO05-400244	Pharmaceutical Chemistry	Lecture	m	4	5							
CO06-DrugDev	Module: Drug Development			me	15							
CO06-400272	Medicinal Chemistry	Lecture	m	3	5							
CO06-400271	Medicinal Chemistry Lab (Intersession)	Lab	m	3	5							
CO06-400275	Medicinal Chemistry of Fluorine and Phosphorus	Lecture	m	4	2,5							
CO06-400274	Introduction to Molecular Simulations	Lecture	m	4	2,5							
Year 3 - CAREER					45					5		
COXX	Module: Additional (4th) CORE module			m	5/6	15	JT-SK-Skills	Module: Skills			m	2,5
CA04-MCCB	Module: Project/Thesis MCCB			m	15	JT-SK-990104	Advanced Scientific and Experimental Skills	Lecture	m	6	2,5	
CA04-520303	Project MCCB	m	m	5	5	JT-TA-TriArea	Module: Triangle Area			m	2,5	
CA04-520304	Thesis MCCB	m	m	6	10	Take one course from the triangle (BUSINESS, TECHNOLOGY & INNOVATION, SOCIETAL CONTEXT) area. Each counts 2,5 ECTS ³						
CAS-CT-MCCB	Module: Specialization Area MCCB			m	15	CA01-CarAdv	Career Advising⁴			5		
Take 15 ECTS of specialization courses ²				me	5/6	15						
Total ECTS										180		

¹ Status (m = mandatory, e = elective, 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 module handbook (on our website).

³ You are required to take six Triangle Area courses in total. Select two from each of the three triangle areas (BUSINESS, TECHNOLOGY & INNOVATION, SOCIETAL CONTEXT).

⁴ Mandatory component of the Jacobs University's Counseling and Advising Scheme.