

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

Medicinal Chemistry and Chemical Biology – World Track												
Matriculation Fall 2017												
Program-Specific Modules					Jacobs Track Modules (General Education)							
Type	Status ¹	Semester	Credits	Credits	Type	Status ¹	Semester	Credits	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	me		1/2	5	
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	Seminar	me	1/2	5	
	Module: CHOICE (own selection)			e	1/2	15	CA01-CarAdv	Career Advising⁴			5	
<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 <u>or</u> 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		Take three Methods (mandatory) elective courses (2,5 ECTS each). ²	Lecture	me	3/4	7,5	
CO04-520213	Advanced Biochemistry Lab	Lab	m	4	5	JT-TA-TriArea	Module: Triangle Area			m	7,5	
CO04-520223	Biological Activity	Lecture	m	4	5		Take three courses from the triangle (BUSINESS, TECHNOLOGY & INNOVATION, SOCIETAL CONTEXT) area. Each counts 2,5 ECTS ³	me		3/4	7,5	
CO05-DrugProd	Module: Drug Action and Production			me	15	JT-LA-Language	Module: Language			m	5	
CO05-400241	Pharmaceutical Analytical Chemistry	Lecture	m	3	2,5		Take two German courses (2,5 ECTS each). Native German speakers take courses in another offered language	Seminar	me	3/4	5	
CO05-400243	Pharmaceutical Analytical Chemistry Lab	Lab	m	3	2,5	CA01-CarAdv	Career Advising⁴			5		
CO05-400234	Biopharmaceutical Production Lab	Lab	m	3	2,5							
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
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	6	5		JT-TA-TriArea	Module: Triangle Area			m	2,5
CA04-520304	Thesis MCCB		m	6	10			Take one course from the triangle (BUSINESS, TECHNOLOGY & INNOVATION, SOCIETAL CONTEXT) area. Each counts 2,5 ECTS ³	me		6	2,5
CAS-WT-MCCB	Module: Specialization Area MCCB			m	10		CA01-CarAdv	Career Advising⁴			5	
	Take four specialization courses (2,5 ECTS each) 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 2017														
Program-Specific Modules					Type	Status ¹	Semester	Credits	Jacobs Track Modules (General Education)					
					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	me	1/2	5	
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	Seminar	me	1/2	5
	Module: CHOICE (own selection)					e	1/2	15	CA01-CarAdv	Career Advising⁴				
<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 <u>or</u> 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		Take three Methods (mandatory) elective courses (2,5 ECTS each). ²	Lecture	me	3/4	7,5
CO04-520213	Advanced Biochemistry Lab				Lab	m	4	5	JT-TA-TriArea	Module: Triangle Area	m		7,5	
CO04-520223	Biological Activity				Lecture	m	4	5		Take three courses from the triangle (BUSINESS, TECHNOLOGY & INNOVATION, SOCIETAL CONTEXT) area. Each counts 2,5 ECTS ³	me	3/4	7,5	
CO05-DrugProd	Module: Drug Action and Production					me		15	JT-LA-Language	Module: Language	m		5	
CO05-400241	Pharmaceutical Analytical Chemistry				Lecture	m	3	2,5		Take two German courses (2,5 ECTS each). Native German speakers take courses in another offered language	Seminar	me	3/4	5
CO05-400243	Pharmaceutical Analytical Chemistry Lab				Lab	m	3	2,5	CA01-CarAdv	Career Advising⁴				
CO05-400234	Biopharmaceutical Production Lab				Lab	m	3	2,5						
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	5	5	JT-TA-TriArea	Module: Triangle Area	m		2,5	
CA04-520304	Thesis MCCB					m	6	10		Take one course from the triangle (BUSINESS, TECHNOLOGY & INNOVATION, SOCIETAL CONTEXT) area. Each counts 2,5 ECTS ³	me	5	2,5	
CAS-CT-MCCB	Module: Specialization Area MCCB					m		15	CA01-CarAdv	Career Advising⁴				
	Take four specialization courses (2,5 ECTS each) 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.