

## Appendix 1a - Mandatory Module and Examination Plan

<b>Medical Natural Sciences – World Track</b>											
<b>Matriculation Fall 2018</b>											
Program-Specific Modules	Type	Status <sup>1</sup>	Semester	Credits		Type	Status <sup>1</sup>	Semester	Credits		
<b>Year 1</b>					<b>45</b>						<b>15</b>
<b>CH17-IntGermI</b>	<b>Module: Intensive German I</b>			<b>m</b>	<b>15</b>	<b>JT-ME-MethodsMath</b>	<b>Module: Methods / Mathematics</b>			<b>m</b>	<b>7,5</b>
CH17-010101	German I	Seminar	m	1	5	JTME-120106	Applied Calculus I	Lecture	m	1	2,5
CH17-010102	German II	Seminar	m	2	5	JTME-120107	Applied Calculus II	Lecture	m	1	2,5
CH17-010103	Germany and its regions	Lecture	m	2	5	JTME-120101	Mathematical Concepts in the Sciences	Lecture	m	2	2,5
<b>CH05-PrincChemPhy</b>	<b>Module: Principles of Chemistry and Physics</b>			<b>m</b>	<b>15</b>	<b>JT-SK-SkillsMN</b>	<b>Module: Skills MEDNAT</b>			<b>m</b>	<b>2,5</b>
CH05-400101	General Chemistry	Lecture	m	1	5	JT-SK-990103	Scientific and Experimental Skills	Lecture	m	1	2,5
CH05-400111	General Chemistry Lab	Lab	m	1	2,5						
CH05-200102	Thermodynamics and Optics	Lecture	m	2	5						
CH05-200112	Thermodynamics and Optics Lab	Lab	m	2	2,5						
<b>CH19-FoundMedI</b>	<b>Module: Foundations in Medicine I</b>			<b>m</b>	<b>15</b>	<b>JT-TA-TriLangArea</b>	<b>Module: Triangle / Language Area</b>			<b>m</b>	<b>5</b>
CH19-540103	Biology/Physiology	Lecture	m	1	5	Take two courses from the triangle (BUSINESS, TECHNOLOGY and INNOVATION, SOCIETAL CONTEXT) or language area. Each counts 2,5 ECTS					
CH19-540113	MedNat Lab	Lab	m	1	2,5						
CH19-540123	Anatomy	Lecture	m	2	5						
CH19-540133	Anatomy/Physiology Lab	Lab	m	2	2,5						
<b>Year 2</b>					<b>45</b>						<b>15</b>
<b>CO43-IntGermII</b>	<b>Module: Intensive German II</b>			<b>m</b>	<b>15</b>	<b>JT-ME-MethodsMath</b>	<b>Module: Methods / Mathematics</b>			<b>m</b>	<b>7,5</b>
CO43-010104	German III	Seminar	m	3	5	Take three methods (mandatory) elective courses. Each counts 2,5 ECTS.					
CO43-010105	German IV	Seminar	m	4	5						
CO43-010106	Das deutsche Gesundheitssystem	Lecture	m	4	5						
<b>CO44-CelluBio</b>	<b>Module: Cellular Biology</b>			<b>m</b>	<b>15</b>	<b>JT-TA-TriLangArea</b>	<b>Module: Triangle / Language Area</b>			<b>m</b>	<b>7,5</b>
CH01-520122	From cells to tissue and body functions	Lecture	m	3	5	Take three courses from the triangle (BUSINESS, TECHNOLOGY and INNOVATION, SOCIETAL CONTEXT) or language area. Each counts 2,5 ECTS.					
CO44-540201	Histologie Labor (Intersession)	Lab	m	3	5						
CH01-520102	General Molecular Cell Biology	Lecture	m	4	5						
<b>CO45-FoundMedII</b>	<b>Module: Foundations in Medicine II</b>			<b>m</b>	<b>15</b>						
CO02-520221	Microbiology Lab	Lecture	m	3	5						
CO45-540211	Mikrobiologie Labor	Lab	m	3	2,5						
CO02-520322	Immunology	Lecture	m	4	5						
CO45-540202	Immunologie	Seminar	m	4	2,5						
<b>Year 3</b>					<b>60</b>						<b>180</b>
<b>CA19-IntGermIII</b>	<b>Module: Intensive German III</b>			<b>m</b>	<b>15</b>						
CA19-010107	German V (between 4th and 5th Semester)	Seminar	m	5	5						
CA19-010108	Übergang ins Medizinstudium (Intersession)	Seminar	m	5	5						
CA19-010109	German VI	Seminar	m	6	5						
<b>CA02-Internship</b>	<b>Module: Internship</b>			<b>m</b>	<b>20</b>						
Internship at Medical School		Internship	m	5	20						
<b>CA20-FoundMedIII</b>	<b>Module: Foundations in Medicine III</b>			<b>m</b>	<b>10</b>						
CA20-540301	Biochemie	Lecture	m	6	5						
CA20-540311	Biochemie Labor	Lab	m	6	2,5						
CA20-540302	Forensik	Seminar	m	6	2,5						
<b>CA21-MedNat</b>	<b>Module: Project/Thesis MEDNAT</b>			<b>m</b>	<b>15</b>						
CA21-540303	Project MEDNAT	Project	m	6	5						
CA21-540304	Thesis MEDNAT	Thesis	m	6	10						
<b>Total ECTS</b>										<b>180</b>	

<sup>1</sup> Status (m = mandatory, e = elective, me = mandatory elective)

## Appendix 1b - Mandatory Module and Examination Plan

<b>Medical Natural Sciences – Campus Track</b>											
<b>Matriculation Fall 2018</b>											
Program-Specific Modules	Type	Status <sup>1</sup>	Semester	Credits	Jacobs Track Modules (General Education)	Type	Status <sup>1</sup>	Semester	Credits		
<b>Year 1</b>					<b>45</b>						<b>15</b>
<b>CH17-IntGermI</b>	<b>Module: Intensive German I</b>			<b>m</b>	<b>15</b>	<b>JT-ME-MethodsMath</b>	<b>Module: Methods / Mathematics</b>			<b>m</b>	<b>7,5</b>
CH17-010101	German I	Seminar	m	1	5	JTME-120106	Applied Calculus I	Lecture	m	1	2,5
CH17-010102	German II	Seminar	m	2	5	JTME-120107	Applied Calculus II	Lecture	m	1	2,5
CH17-010103	Germany and its regions	Lecture	m	2	5	JTME-120101	Mathematical Concepts in the Sciences	Lecture	m	2	2,5
<b>CH05-PrincChemPhy</b>	<b>Module: Principles of Chemistry and Physics</b>			<b>m</b>	<b>15</b>	<b>JT-SK-SkillsMN</b>	<b>Module: Skills MEDNAT</b>			<b>m</b>	<b>2,5</b>
CH05-400101	General Chemistry	Lecture	m	1	5	JT-SK-990103	Scientific and Experimental Skills	Lecture	m	1	2,5
CH05-400111	General Chemistry Lab	Lab	m	1	2,5						
CH05-200102	Thermodynamics and Optics	Lecture	m	2	5						
CH05-200112	Thermodynamics and Optics Lab	Lab	m	2	2,5						
<b>CH19-FoundMedI</b>	<b>Module: Foundations in Medicine I</b>			<b>m</b>	<b>15</b>	<b>JT-TA-TriLangArea</b>	<b>Module: Triangle / Language Area</b>			<b>m</b>	<b>5</b>
CH19-540103	Biology/Physiology	Lecture	m	1	5	Take two courses from the triangle (BUSINESS, TECHNOLOGY and INNOVATION, SOCIETAL CONTEXT) or language area. Each counts 2,5 ECTS					
CH19-540113	MedNat Lab	Lab	m	1	2,5						
CH19-540123	Anatomy	Lecture	m	2	5						
CH19-540133	Anatomy/Physiology Lab	Lab	m	2	2,5						
<b>Year 2</b>					<b>45</b>						<b>15</b>
<b>CO43-IntGermII</b>	<b>Module: Intensive German II</b>			<b>m</b>	<b>15</b>	<b>JT-ME-MethodsMath</b>	<b>Module: Methods / Mathematics</b>			<b>m</b>	<b>7,5</b>
CO43-010104	German III	Seminar	m	3	5	Take three methods (mandatory) elective courses. Each counts 2,5 ECTS.					
CO43-010105	German IV	Seminar	m	4	5						
CO43-010106	Das deutsche Gesundheitssystem	Lecture	m	4	5						
<b>CO44-CelluBio</b>	<b>Module: Cellular Biology</b>			<b>m</b>	<b>15</b>	<b>JT-TA-TriLangArea</b>	<b>Module: Triangle / Language Area</b>			<b>m</b>	<b>7,5</b>
CH01-520122	From cells to tissue and body functions	Lecture	m	3	5	Take three courses from the triangle (BUSINESS, TECHNOLOGY and INNOVATION, SOCIETAL CONTEXT) or language area. Each counts 2,5 ECTS.					
CO44-540201	Histologie Labor (Intersession)	Lab	m	3	5						
CH01-520102	General Molecular Cell Biology	Lecture	m	4	5						
<b>CO45-FoundMedII</b>	<b>Module: Foundations in Medicine II</b>			<b>m</b>	<b>15</b>						
CO02-520221	Microbiology Lab	Lecture	m	3	5						
CO45-540211	Mikrobiologie Labor	Lab	m	3	2,5						
CO02-520322	Immunology	Lecture	m	4	5						
CO45-540202	Immunologie	Seminar	m	4	2,5						
<b>Year 3</b>					<b>55</b>						<b>5</b>
<b>CA19-IntGermIII</b>	<b>Module: Intensive German III</b>			<b>m</b>	<b>15</b>	<b>JT-MedNatCT</b>	<b>Module: Jacobs Track (MedNat CT)</b>			<b>m</b>	<b>5</b>
CA19-010107	German V (between 4th and 5th Semester)	Seminar	m	5	5	Take any two courses from the triangle (BUSINESS, TECHNOLOGY and INNOVATION, SOCIETAL CONTEXT) or language area or methods area. Each counts 2,5 ECTS.					
CA19-010108	Übergang ins Medizinstudium (Intersession)	Seminar	m	5	5						
CA19-010109	German VI	Seminar	m	6	5						
<b>CO01-Biomed</b>	<b>Module: Biomedicine</b>			<b>me</b>	<b>15</b>						
CO01-520234	Advanced Molecular Cell Biology	Lecture	m	5	5						
CO01-520241	Advanced Molecular Cell Biology Lab (Intersession)	Lab	m	5	5						
CO01-520235	Molecular Mechanisms of Disease, Diagnostics and Therapy	Lecture	m	6	5						
<b>CA20-FoundMedIII</b>	<b>Module: Foundations in Medicine III</b>			<b>m</b>	<b>10</b>						
CA20-540301	Biochemie	Lecture	m	6	5						
CA20-540311	Biochemie Labor	Lab	m	6	2,5						
CA20-540302	Forensik	Seminar	m	6	2,5						
<b>CA21-MedNat</b>	<b>Module: Project/Thesis MEDNAT</b>			<b>m</b>	<b>15</b>						
CA21-540303	Project MEDNAT	Project	m	5	5						
CA21-540304	Thesis MEDNAT	Thesis	m	6	10						
<b>Total ECTS</b>										<b>180</b>	

<sup>1</sup> Status (m = mandatory, e = elective, me = mandatory elective)