

Curriculum BMS (FT)		HPW	Type						Examination form		CP	HPW						
			V	SL	S	Ü	Pra	Pro	Attestation	graded		WS1	SS2	WS3	SS4	WS5	SS6	WS7
<b>1<sup>st</sup> Semester</b>																		
BM 1 2000	Introductory Mathematics	8	5			3				x	x	8	8					
BM 1 2003	Physics	4	2			1	1			x	x	5	4					
BM 1 2005	Inorganic Chemistry	4	2			1	1			x	x	5	4					
BM 1 2011	Programming	4	2					2		x	x	5	4					
BM 1 2014	Cross Cultural Management	4	2			2				x		5	4					
BM 1 2100	Introduction to Biomaterials Science	3	2			1				x		3	3					
<b>2<sup>nd</sup> Semester</b>																		
BM 2 2001	Applied Mathematics	8	5			3				x	x	7	8					
BM 2 2004	Advanced Physics	4	2			1	1			x	x	5	4					
BM 2 2006	Organic Chemistry	4	2			1	1			x	x	5	4					
BM 2 2103	Physical Chemistry	4	2			1	1			x	x	5	4					
BM 2 2106	Metallic Materials and Testing	4	2					2		x	x	5	4					
BM 2 2110	Material Analysis	4	2					2		x	x	5	4					
<b>3<sup>rd</sup> Semester</b>																		
BM 3 2008	Static and Strength of Materials	4	2			2				x	x	5			4			
BM 3 2013	Business Economics and Project Management	4	3					1		x		5			4			
BM 3 2101	Cell Biology and Microbiology	4	2					2		x	x	5			4			
BM 3 2104	Chemistry of Biopolymers	4	2			1	1			x	x	5			4			
BM 3 2107	Non-metallic Materials	4	2			1	1			x	x	5			4			
BM 3 2112	Colloids and Rheology	4	2					2		x	x	5			4			
<b>4<sup>th</sup> Semester</b>																		
BM 4 2102	Biochemistry	4	2					2		x	x	5			4			
BM 4 2105	Biotechnology and Biodegradable Materials	4	4							x	x	5			4			
BM 4 2109	Materials Technology	4	4							x	x	5			4			
BM 4 2111	Applied Materials and Corrosion	4	2			1	1			x	x	5			4			
<b>Focus Field (see: Catalogue Individual Subjects: Focus Field Subjects)</b>																		
Focus Field Subject 1																		
Focus Field Subject 2																		
<b>5<sup>th</sup> Semester</b>																		
BM 5 2015	Group Project	1						1		x		5				1		
BM 5 2113	Tailored Materials and Surfaces	4	2			1	1			x	x	5			4			
BM 5 2114	Biocompatible Materials	4	2			1	1			x	x	5			4			
BM 5 2006	FEM and Simulation Methods	4	2					2		x	x	5			4			
<b>Focus Field (see: Catalogue of Individual Subjects: Focus Field Subjects)</b>																		
Focus Field Subject 3																		
Focus Field Subject 4																		
<b>6<sup>th</sup> Semester</b>																		
BM 6 2016	Internship / Semester abroad									x		30						
<b>7<sup>th</sup> Semester</b>																		
BM 7 2017	Thesis									x	x	12						
BM 7 2018	Colloquium									x	x	3						
BM 7 2511	Technology and Quality Management	4	2					2		x	x	5					4	
BM 7 2512	Entrepreneurship	2							2	x	x	2					2	
<b>Elective (see: Catalogue of Individual Subjects: Electives)</b>																		
3																		
<b>Overview</b>																		
		HPW	Type						Examination form		CP	HPW						
			V	SL	S	Ü	Pra	Pro	Attestation	graded	210	27	28	24	16	21	9	

Catalogue Individual Subjects BMS		HPW	Type						Examination form		CP	HPW						
Focus Field Subjects * / ** / *** / **** / *****			V	SL	S	Ü	Pra	Pro	Attestation	graded		WS1a	WS1b	SS2a	SS2b	WS3	SS4	WS5
BM 4 2002	Numerical Mathematics	4	3			1				x	5				4			
BM 7 2021	Module from any other study course HSRW										5							
BM 4 2116	Inorganic and Composite Materials	4	2				2			x	5				4			
BM 4 2117	Technical Investment Planning	4	2				2		x		5				4			
BM 4 2118	Materials Inspired by Nature	3	2			1				x	5				3			
BM 4 2119	Medical Devices	4	2				2			x	5				4			
BM 5 2120	Recycling and Ecology of Materials	4	2				2			x	5				4			
BM 5 2121	Material Testing and Failure Analysis	4	2				2			x	5				4			
BM 5 2122	Nanomaterials	3	2				1			x	5				3			
BM 5 2123	Materials Simulation	4	2				2			x	5				4			
BM 5 2124	Biological Reactions to Materials	4	2			1	1			x	5				4			
<b>Electives</b>																		
BM 7 2019	Scientific Methods (Block or Online)	4	2			2			x	x	5							4
BM 7 2020	Foreign Language								x	x	5							
BM 7 2021	Module from any other Bachelor study course HSRW								x	x	5							

Explanations / Conditions

- \* The faculty reserves the right to determine a minimum number of participants for offering a subject in the focus fields / electives, as well as a maximum number of participants. The possibility of obtaining the required number of credit points remains unaffected.
- \*\* A maximum of 5 credits may be earned via an elective from the catalogue of any bachelor's degree programme at Rhine-Waal University of Applied Sciences with the approval of the Examination Board of the Faculty of Technology and Bionics.
- \*\*\* The Faculty of Technology and Bionics reserves the right to amend its catalogue of electives.
- \*\*\*\* Due to time labelling constraints, subjects from different focus fields and electives may be offered concurrently.

Abbreviations

- HPW Hours per week (also: Semesterwochenstunden / SWS)
- CP Credit points