

ADVANCED MATERIALS Curriculum Biomaterials

	1st semester		2nd semester		3rd semester		4th semester	
Materials Science	Materials Science I	5 CP	Materials Science II	5 CP	Lab Materials Science II	5 CP		
			Computational Methods in Materials Science	4 CP				
			Lab Materials Science I	5 CP				
Chemistry	Physical Chemistry	4 CP						
	General Chemistry	2 CP						
	Synthesis of Org. & Inorg. Materials	4 CP						
Physics	Introductory Solid State Physics	5 CP						
	Lab Intermediate Physics	4 CP						
Biology	Introductory Biology and Cell Biology	5 CP						
Biomaterials			Biological Tissues	2 CP	Host Reactions of Biomaterials	2 CP		
			Classes of Biomaterials	2 CP	Degradation of Biomaterials	2 CP		
			Applications of Biomaterials	2 CP	Testing of Biomaterials	2 CP		
					Production of Biomaterials	2 CP		
Elective Courses			Elective Courses in Bio- / Nanomaterials	7 CP	Elective Courses in Nano- / Biomaterials	13 CP		
ASQ	German Language I	3 CP	German Language II	3 CP	German Language III	2 CP		
Master Thesis							Master Thesis	30 CP
		32 CP		30 CP		28 CP		30 CP