


Data Science - Profile 1 (BSc Computer Science, Application Field Medicine)													
	1st Semester (WS)			2nd Semester (SS)			3rd Semester (WS)			4th Semester (SS)			
Computer Science		Computer Science Elective 5 CP			Computer Science Elective 5 CP			Computer Science Seminar 5 CP			Master Thesis 30 CP		55 CP
		Computer Science Elective 5 CP											
		Computer Science Elective 5 CP											
Mathematics		RampUp Mathematics 10 CP			Mathematics Elective 10 CP			Mathematics Elective 10 CP				35 CP	
								Practical Course Mathematics 5 CP					
Applications					Med.-meth. Specialization 1 5 CP			Med.-meth. Specialization 2 5 CP				20 CP	
					Accident Informatics 5 CP								
					Biomedical Image & Signal Analysis 5 CP								
Key qualifications and Ethics		Ethics 5 CP						Key qualifications 5 CP				10 CP	
Total		30 CP			30 CP			30 CP			30 CP		120 CP
		Compulsory Modules			Compulsory Electives								

Data Science - Profile 2 (BSc Bioinformatics, Application Field Biology, Chemistry, Pharmacy)																	
	1st Semester (WS)				2nd Semester (SS)				3rd Semester (WS)				4th Semester (SS)				
Computer Science	Computer Science Elective 5 CP				Computer Science Elective 5 CP				Practical Course Computer Science 5 CP								25 CP
	Computer Science Elective 5 CP								Computer Science Elective 5 CP								
Mathematics	RampUp Mathematics 10 CP				Mathematics Elective 10 CP				Mathematics Elective 5 CP								35 CP
					Mathematics Elective 10 CP												
Applications	Network Biology 5 CP				Numerical Ecology (Seminar) 5 CP				Project Work 15 CP				Master Thesis 30 CP				55 CP
Key qualifications and Ethics	Ethics 5 CP																5 CP
Total	30 CP				30 CP				30 CP				30 CP				120 CP
	Compulsory Modules				Compulsory Electives												

Data Science - Profile 3 (BSc Mathematics, Application Field Image and Signal Processing)																	
	1st Semester (SS)				2nd Semester (WS)				3rd Semester (SS)				4th Semester (WS)				
Computer Science	RampUp Computer Science 10 CP				Computer Science Elective 5 CP				Computer Science Seminar 5 CP								35 CP
					Computer Science Elective 5 CP				Computer Science Elective 5 CP								
									Computer Science Elective 5 CP								
Mathematics	Mathematics Elective 10 CP				Practical Course Mathematics 5 CP												25 CP
	Mathematics Elective 10 CP																
Applications					Computer Vision and Machine Learning 5 CP				Project Work 15 CP				Master Thesis 30 CP				55 CP
					Spoken Language Processing 5 CP												
Key qualifications and Ethics					Ethics 5 CP												5 CP
Total	30 CP				30 CP				30 CP				30 CP				120 CP
																	

Data Science - Profile 4 (BSc Mathematics/Physics, Application Field Data Science in Engineering)																	
	1st Semester (SS)				2nd Semester (WS)				3rd Semester (SS)				4th Semester (WS)				
Computer Science	RampUp Computer Science 10 CP				Computer Science Elective 5 CP				Computer Science Seminar 5 CP								35 CP
					Computer Science Elective 5 CP				Computer Science Elective 5 CP								
									Computer Science Elective 5 CP								
Mathematics	Mathematics Elective 10 CP				Practical Course Mathematics 5 CP								Master Thesis 30 CP				55 CP
	Mathematics Elective 10 CP																
Applications					Basic Coastal Engineering 6 CP				Ecological Modeling 6 CP								22 CP
					Introduction to Finite Elements 5 CP				Fundamentals of Turbulence Modeling 5 CP								
Key qualifications and Ethics					Ethics 5 CP				Key qualifications 3 CP								8 CP
Total	30 CP				31 CP				29 CP				30 CP				120 CP
	Compulsory Modules				Compulsory Electives												