

BSc Mathematics, Modeling and Data Analytics (180 CP)

	CHOICE / CORE / CAREER 3 x 45 = 135 CP						CONSTRUCTOR Track 45 CP				
3 rd Year CAREER	Bachelor Thesis / Seminar (research or industry) m, 15 CP		MMDA Specialization IV me, 5 CP		Summer Internship / Start-Up (after 2 nd year) m, 15 CP		New Skills / Methods Modules me, 5 CP		New Skills Modules		
	MMDA Specialization II me, 5 CP	MMDA Specialization III me, 5 CP									
2 nd Year CORE	Discrete Mathematics m, 5 CP	Computational Modeling m, 5 CP	Real Analysis m, 5 CP	MMDA Specialization I me, 5 CP	Machine Learning m, 5 CP	Statistics and Data Analytics m, 5 CP		me, 15 CP			
	Number Theory m, 5 CP		Algebra m, 5 CP	Complex Analysis m, 5 CP	Scientific Data Analysis m, 5 CP	Probability and Random Processes m, 5 CP					
1 st Year CHOICE	Linear Algebra m, 7.5 CP		Mathematical Modeling m, 7.5 CP		Own Selection me, 7.5 CP		Matrix Algebra & Advanced Calculus II m, 5 CP		German / Humanities me, 2.5 CP		
	Analysis m, 7.5 CP		Scientific Programming with Python m, 7.5 CP		Own Selection me, 7.5 CP		Matrix Algebra & Advanced Calculus I m, 5 CP		German / Humanities me, 2.5 CP		
	Minor Option Math (30 CP)		CP: Credit Points m: mandatory me: mandatory elective Study abroad Option in 5 th Semester (22.5 CP)								