

Software, Data and Technology (180 CP)

	CHOICE / CORE / CAREER 3 x 45 = 135 CP				CONSTRUCTOR Track 45 CP
3 rd Year CAREER	Bachelor Thesis / Seminar m, 15 CP		Summer Internship / Start-Up (after 2 nd year) m, 15 CP		New Skills modules
	Specialization me, 5 CP	Specialization me, 5 CP			
2 nd Year CORE	Machine Learning m, 5 CP	Database Fundamentals me, 5 CP	Discrete Mathematics OR Artificial Intelligence me, 5 CP	Software Engineering and Design m, 7.5 CP	Statistics and Data Analytics m, 5 CP me, 20 CP Probability and Random Processes m, 5 CP
	Functional Programming me, 5 CP	Scientific Data Analysis me, 5 CP	Advanced Algorithms and Data Structures m, 5 CP	Operating Systems m, 7.5 CP	
1 st Year	Core Algorithms and Data Structures m, 7.5 CP	Development in JVM Languages m, 7.5 CP	Own Selection me, 7.5 CP	Elements of Calculus Or Matrix Alg. & Adv. Calculus II m, 5 CP	German / Humanities me, 2.5 CP
	Programming in C/C++ m, 7.5 CP	Industrial Programming with Python m, 7.5 CP	Own Selection me, 7.5 CP	Elements of Linear Algebra Or Matrix Alg. & Adv. Calculus I m, 5 CP	German / Humanities me, 2.5 CP
	Minor Option in Software Development (30 CP)		CP: Credit Points m: mandatory me: mandatory elective Study abroad Option in 5 th Semester (22.5 CP)		