

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		Argumentation, Data Visualization and Communication** m, 5 CP	Agency, Leadership & Accountability OR Community Impact Project me, 5 CP	
	Specialization me, 5 CP	Specialization me, 5 CP	Specialization me, 5 CP				Linear Model / Matrices OR Complex Problem Solving 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	Causation / Correlation** m, 2.5 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		Probability and Random Processes m, 5 CP	Logic** m, 2.5 CP	
1 st Year CHOICE	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 m, 5 CP	German / Humanities me, 2.5 CP
	Programming in C/C++ m, 7.5 CP		Mathematical Foundations of Computer Science m, 7.5 CP		Own Selection me, 7.5 CP		Elements of Linear Algebra 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 5th Semester (22.5 CP)

**Different module perspectives available