

Computer Science (180 CP)

	CHOICE / CORE / CAREER					3 x 45 = 135 CP		CONSTRUCTOR Track		45 CP
3 rd Year CAREER	Bachelor Thesis / Seminar					Summer Internship / Start-Up (after 2 nd year)		New Skills modules		
	Specialization I		Specialization II		Specialization III					
	me, 5 CP		me, 5 CP		me, 5 CP	m, 15 CP				
2 nd Year CORE	Software Engineering		Automata, Computability, Complexity		Machine Learning	Academic Skills in CS	Numerical Methods OR Statistics and Data Analytics		me, 20 CP	
	m, 7.5 CP		m, 7.5 CP		me, 5 CP	me, 2.5 CP	me, 5 CP			
	Databases		Operating Systems		Functional Programming	Legal and Ethical Aspects	Probability and Random Processes			
	m, 7.5 CP		m, 7.5 CP		me, 5 CP	me, 2.5 CP	m, 5 CP			
1 st Year CHOICE	Algorithms and Data Structures		Digital Systems and Computer Architecture		Development in JVM Languages		Elements of Calculus		German / Humanities	
	m, 7.5 CP		m, 7.5 CP		me, 7.5 CP		me, 5 CP		me, 2.5 CP	
	Programming in C and C++		Mathematical Foundations of Computer Science		Own Selection		Elements of Linear Algebra		German / Humanities	
	m, 7.5 CP		m, 7.5 CP		me, 7.5 CP		me, 5 CP		me, 2.5 CP	
	Minor Option in CS (30 CP)									
			CP: Credit Points		m: mandatory me: mandatory elective		Study abroad Option in 5 th Semester (22.5 CP)			