

Semester	1	2	3	4	5	6	7
	Exams	8 CP - 50%	6 CP - 50%			5 CP	
Computer Science I - Mandatory	Introduction to Computer Science (10 CP)	Algorithms and Data Structures (10 CP)			Software Engineering and IT Project Management (5 CP)		
			at least 5 CP graded - 50%				
			Modelling (5 CP)	Databases (5 CP)			
Exams				at least 10 CP graded (15 CP taken)			
					Intelligent Systems (5 CP)	Secure Systems (5 CP)	
CS II - Mandatory						Programming Paradigms (5 CP)	
Exams					at least 15 CP graded		
CS - Electives					CS Elective (5 CP)	CS or Math Elective (5 CP)	
					CS Elective (5 CP)		
Exams			at least 5 CP graded - 50%				
Technical CS			Technical Computer Science 1 (5 CP)	Technical Computer Science 2 (5 CP)			
Exams	at least 10 CP graded (20 CP taken) - 50%						
Math / Logic	Math 1 (5 CP)	Math 2 (5 CP)	Math 3 (5 CP)	Logic (5 CP)			
Exams		at least 10 CP graded (15 CP taken)					
Math / Theoretical CS		Math 5 (5 CP)	Basics of Theoretical Computer Science 1 (5 CP)	Basics of Theoretical Computer Science 2 (5 CP)			
Exams	at least 20CP graded - 50%				5 CP		
Language	English Soft Skills, Scientific Language (10 CP) (CP distribution: 2+2+2+4)						
	Language top-up (10 CP) German A2	Language top-up (10 CP) German B1	Language top-up (5 CP) German B2-1	Language top-up (5 CP) German B2-2	Scientific Seminar in German (5 CP)		
Exams	5 CP - 50%				at least 14 CP graded		
Soft Skills	Soft Skills 1+2 (5 CP [2CP + 3 CP])				Software Project (5 CP)	Elective CS Soft Skills (5 CP)	
						Software Development Project (10 CP)	
Total CP	32	32	27	29	30	30	30

Internship / Bachelor project (18 CP) and Bachelor thesis (10 CP) + Defense (2 CP)

Language German English Alternating as offered

If you have more than A1 German at the beginning of your studies, you may substitute German A2 and German B1 for additional electives and take mandatory courses in earlier semesters, if they are available.