

Course of Study Computer Science (Study Cohort w18)

Legend:	Core Qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
	Core Qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

Sample course plan A Bachelor Computer Science (CSBS)

Specialisation: Computational Mathematics	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6
Form Hrs/wk	Form Hrs/wk	Form Hrs/wk	Form Hrs/wk	Form Hrs/wk	Form Hrs/wk
1	Discrete Algebraic Structures	Objectoriented Programming, Algorithms and Data Structures	Computer Engineering	Computability and Complexity Theory	Seminars Computer Science and Mathematics
2	Discrete Algebraic Structures VL 2	Objectoriented Programming, Algorithms and Data Structures VL 4	Computer Engineering VL 3	Computability and Complexity Theory VL 2	Graph Theory and Optimization
3	Discrete Algebraic Structures GÜ 2	Objectoriented Programming, Algorithms and Data Structures GÜ 1	Computer Engineering GÜ 1	Computability and Complexity Theory GÜ 2	Graph Theory and Optimization VL 2
4					Graph Theory and Optimization GÜ 2
5					
6					
7	Procedural Programming	Automata Theory and Formal Languages	Computernetworks and Internet Security	Signals and Systems	Software Industrial Internship
8	Procedural Programming VL 1	Automata Theory and Formal Languages VL 2	Computer Networks and Internet Security VL 3	Signals and Systems VL 3	Algebra and Control
9	Procedural Programming HÜ 1	Automata Theory and Formal Languages GÜ 2	Computer Networks and Internet Security GÜ 1	Signals and Systems GÜ 2	Algebra and Control VL 2
10	Procedural Programming PR 2				Algebra and Control GÜ 2
11					
12					
13	Functional Programming	Software Engineering	Mathematics III	Stochastics	Computational Geometry
14	Functional Programming VL 2	Software Engineering VL 2	Analysis III VL 2	Stochastics VL 2	Computational Geometry VL 2
15	Functional Programming HÜ 2	Software Engineering GÜ 2	Analysis III GÜ 1	Stochastics GÜ 2	Computational Geometry GÜ 2
16	Functional Programming GÜ 2		Analysis III HÜ 1		
17			Differential Equations 1 VL 2		
18			Differential Equations 1 GÜ 1		
19			Differential Equations 1 HÜ 1		
20	Linear Algebra	Mathematical Analysis		Operating Systems	Numerical Mathematics I
21	Linear Algebra VL 4	Mathematical Analysis VL 4		Operating Systems VL 2	Numerical Mathematics I VL 2
22	Linear Algebra HÜ 2	Mathematical Analysis HÜ 2	Introduction to Information Security	Operating Systems GÜ 2	Numerical Mathematics I GÜ 2
23	Linear Algebra GÜ 2	Mathematical Analysis GÜ 2	Introduction to Information Security VL 3		
24			Introduction to Information Security GÜ 2		
25					
26					Combinatorial Structures and Algorithms
27		Foundations of Management			Combinatorial Structures and Algorithms VL 3
28		Introduction to Management VL 3			Combinatorial Structures and Algorithms GÜ 1
29		Management Tutorial HÜ 2			
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Nontechnical Complementary Courses for Bachelors (from catalogue) - 6LP

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.

