

Course of Study Data Science (Study Cohort w21)

Sample course plan D Bachelor Data Science (DSBS)

Specialisation Medicine																										
1	Discrete Algebraic Structures		VL	2	Automata Theory and Formal Languages		VL	2	Databases		VL	3	Signals and Systems		VL	3	Introduction to Information Security		VL	2	Seminars Computer Science		SE	2		
2	Discrete Algebraic Structures				Automata Theory and Formal Languages				Databases				Signals and Systems				Introduction to Information Security				Introductory Seminar Computer Science II					
3	Discrete Algebraic Structures		GÜ	2	Automata Theory and Formal Languages		GÜ	2	Databases		GÜ	1	Signals and Systems		GÜ	2	Introduction to Information Security		GÜ	2	Introductory Seminar Computer Science I		SE	2		
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7	Procedural Programming for Computer Engineers				Stochastics		VL	2	Numerical Mathematics I		VL	2	Foundations of Management		VL	3	Data Mining		VL	2	Ethics in Information Technology		VL	2		
8	Procedural Programming for Computer Engineers		VL	1	Stochastics				Numerical Mathematics I				Introduction to Management		VL	3	Data Mining				Ethics in Information Technology					
9	Procedural Programming for Computer Engineers		HÜ	1	Stochastics		GÜ	2	Numerical Mathematics I		GÜ	2	Management Tutorial		GÜ	2	Data Mining		PBL	2	Ethics in Information Technology		SE	2		
10	Procedural Programming for Computer Engineers		PR	2																						
11																										
12																										
13	Mathematics I (EN)				Programming Paradigms		VL	2	Algorithms and Data Structures		VL	4	Graph Theory and Optimization		VL	2	Machine Learning II		VL	2	Computability and Complexity Theory		VL	2		
14	Analysis I		VL	2	Programming Paradigms				Algorithms and Data Structures				Graph Theory and Optimization				Machine Learning II				Computability and Complexity Theory					
15	Analysis I		HÜ	1	Programming Paradigms		HÜ	1	Algorithms and Data Structures		GÜ	1	Graph Theory and Optimization		GÜ	2	Machine Learning II		GÜ	3	Computability and Complexity Theory		GÜ	2		
16	Analysis I		GÜ	1	Programming Paradigms		PR	2																		
17	Linear Algebra I		VL	2																						
18	Linear Algebra I		HÜ	1																						
19	Linear Algebra I		GÜ	1																						
20					Mathematics II (EN)		VL	2	Statistics		VL	3	Scientific Programming		VL	3	Simulation of Transport and Handling Systems		VL	1	Bachelor Thesis					
21	MED II: Introduction to Biochemistry and Molecular Biology				Analysis II		HÜ	1	Statistics		GÜ	1	Scientific Programming		GÜ	2	Simulation of Transport and Handling Systems		GÜ	3						
22	Introduction to Biochemistry and Molecular Biology		VL	2	Analysis II		GÜ	1																		
23					Linear Algebra II		VL	2																		
24					Linear Algebra II		HÜ	1																		
25					Linear Algebra II		GÜ	1																		
26									Mathematics III (EN)		VL	2	Machine Learning I		VL	2										
27									Analysis III		HÜ	1	Machine Learning I		GÜ	2										
28					MED I: Introduction to Anatomy		VL	2	Analysis III		GÜ	1														
29									Differential Equations 1		VL	2														
30									Differential Equations 1		HÜ	1														
31									Differential Equations 1		GÜ	1														
32													MED II: Introduction to Physiology		VL	2										
33																										
Non-technical 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.

