

Course of Study Data Science (Study Cohort w21)

Sample course plan E 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	Semiconductor Circuit Design		VL	3
14	Analysis I		VL	2	Programming Paradigms				Algorithms and Data Structures				Graph Theory and Optimization				Machine Learning II				Semiconductor Circuit Design			
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	Semiconductor Circuit Design		GÜ	1
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	Computer Engineering		VL	3	Bachelor Thesis			
21	MED II: Introduction to Biochemistry and Molecular Biology				Analysis II		HÜ	1	Statistics		GÜ	1	Scientific Programming		GÜ	2	Computer Engineering		GÜ	1				
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					Introduction to Anatomy				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.

