

# Course of Study Data Science (Study Cohort w21)

Sample course plan A Bachelor Data Science (DSBS)

Specialisation: Medicine		Form Hrs/wk	Semester 2	Form Hrs/wk	Semester 3	Form Hrs/wk	Semester 4	Form Hrs/wk	Semester 5	Form Hrs/wk	Semester 6	Form Hrs/wk									
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	Introductory Seminar Computer Science II	SE 2								
2		VL 2												VL 2	VL 3	VL 3	VL 2	SE 2			
3		GÜ 2												GÜ 2	GÜ 1	GÜ 2	GÜ 2	SE 2			
4																					
5																					
6																					
7	Procedural Programming for Computer Engineers	VL 1	Stochastics	VL 2	Numerical Mathematics I	VL 2	Foundations of Management	VL 3	Data Mining	VL 2	Ethics in Information Technology	VL 2									
8		HÜ 1											GÜ 2	GÜ 2	GÜ 2	PBL 2	SE 2				
9		PR 2																			
10																					
11																					
12																					
13	Mathematics I (EN)	VL 2	Programming Paradigms	VL 2	Algorithms and Data Structures	VL 4	Graph Theory and Optimization	VL 2	Machine Learning II	VL 2	Bachelor Thesis										
14		HÜ 1											HÜ 1	GÜ 1	GÜ 2	GÜ 2					
15		GÜ 1											PR 2								
16		VL 2																			
17		HÜ 1																			
18		GÜ 1																			
19																					
20	MED II: Introduction to Biochemistry and Molecular Biology		Mathematics II (EN)	VL 2	Statistics	VL 3	Scientific Programming	VL 3	Functional Programming	VL 2											
21		HÜ 1													GÜ 1	GÜ 2	HÜ 2				
22		GÜ 1															GÜ 2				
23		VL 2													VL 2						
24			Mathematics III (EN)	VL 2	Machine Learning I	VL 2	Engineering Mechanics III (Dynamics)	VL 3													
25															HÜ 1	GÜ 2	GÜ 2				
26															GÜ 1						
27																					
28			MED I: Introduction to Anatomy	VL 2																	
29														VL 2							
30			MED I: Introduction to Radiology and Radiation Therapy	VL 2																	
31																					
32																					
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.

