

# Course of Study Data Science (Study Cohort w21)

Sample course plan B Bachelor Data Science (DSBS)

Specialisation: Medicine											
Semester 1			Semester 2			Semester 3			Semester 4		
Form Hrs/wk			Form Hrs/wk			Form Hrs/wk			Form Hrs/wk		
1	<b>Discrete Algebraic Structures</b>		<b>Automata Theory and Formal Languages</b>			<b>Databases</b>			<b>Signals and Systems</b>		
2	Discrete Algebraic Structures	VL 2	Automata Theory and Formal Languages	VL 2		Databases	VL 3		Signals and Systems	VL 3	
3	Discrete Algebraic Structures	GÜ 2	Automata Theory and Formal Languages	GÜ 2		Databases	GÜ 1		Signals and Systems	GÜ 2	
4											
5											
6											
7	<b>Procedural Programming for Computer Engineers</b>		<b>Stochastics</b>			<b>Numerical Mathematics I</b>			<b>Foundations of Management</b>		
8	Procedural Programming for Computer Engineers	VL 1	Stochastics	VL 2		Numerical Mathematics I	VL 2		Introduction to Management	VL 3	
9	Procedural Programming for Computer Engineers	HÜ 1	Stochastics	GÜ 2		Numerical Mathematics I	GÜ 2		Management Tutorial	GÜ 2	
10	Procedural Programming for Computer Engineers	PR 2									
11											
12											
13	<b>Mathematics I (EN)</b>		<b>Programming Paradigms</b>			<b>Algorithms and Data Structures</b>			<b>Graph Theory and Optimization</b>		
14	Analysis I	VL 2	Programming Paradigms	VL 2		Algorithms and Data Structures	VL 4		Graph Theory and Optimization	VL 2	
15	Analysis I	HÜ 1	Programming Paradigms	HÜ 1		Algorithms and Data Structures	GÜ 1		Graph Theory and Optimization	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			<b>Mathematics II (EN)</b>			<b>Statistics</b>			<b>Scientific Programming</b>		
21	<b>MED II: Introduction to Biochemistry and Molecular Biology</b>		Analysis II	VL 2		Statistics	VL 3		Scientific Programming	VL 3	
22	Introduction to Biochemistry and Molecular Biology	VL 2	Analysis II	HÜ 1		Statistics	GÜ 1		Scientific Programming	GÜ 2	
23			Analysis II	GÜ 1							
24			Linear Algebra II	VL 2							
25			Linear Algebra II	HÜ 1							
26			Linear Algebra II	GÜ 1		<b>Mathematics III (EN)</b>			<b>Machine Learning I</b>		
27						Analysis III	VL 2		Machine Learning I	VL 2	
28						Analysis III	HÜ 1		Machine Learning I	GÜ 2	
29			<b>MED I: Introduction to Anatomy</b>			Analysis III	GÜ 1				
30			Introduction to Anatomy	VL 2		Differential Equations 1	VL 2				
31						Differential Equations 1	HÜ 1				
32			<b>MED I: Introduction to Radiology and Radiation Therapy</b>			Differential Equations 1	GÜ 1		<b>MED II: Introduction to Physiology</b>		
33			Introduction to Radiology and Radiation Therapy	VL 2					Introduction to Physiology	VL 2	
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.

