

Course of Study Data Science (Study Cohort w20)

Sample course plan C Bachelor Data Science (DSBS)
Specialisation Medicine

Core qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
Core qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

LP	Semester 1	FormHrs/wk	Semester 2	FormHrs/wk	Semester 3	FormHrs/wk	Semester 4	FormHrs/wk	Semester 5	FormHrs/wk	Semester 6	FormHrs/wk						
1	Discrete Algebraic Structures	VL 2	Automata Theory and Formal Languages	VL 2	Databases	VL 4	Signals and Systems	VL 3	Introduction to Information Security	VL 3	Seminars Data Science	SE 2						
2													Discrete Algebraic Structures	Automata Theory and Formal Languages	Databases	Signals and Systems	Introduction to Information Security	Seminar Data Science I
3													Discrete Algebraic Structures	Automata Theory and Formal Languages	Databases	Signals and Systems	Introduction to Information Security	Seminar Data Science II
4													Discrete Algebraic Structures	Automata Theory and Formal Languages	Databases	Signals and Systems	Introduction to Information Security	Seminar Data Science II
5													Discrete Algebraic Structures	Automata Theory and Formal Languages	Databases	Signals and Systems	Introduction to Information Security	Seminar Data Science II
6													Discrete Algebraic Structures	Automata Theory and Formal Languages	Databases	Signals and Systems	Introduction to Information Security	Seminar Data Science II
7	Procedural Programming	VL 1	Stochastics	VL 2	Numerical Mathematics I	VL 2	Foundations of Management	VL 3	Data Mining	VL 2	Introduction into Medical Technology and Systems	VL 2						
8													Procedural Programming	Stochastics	Numerical Mathematics I	Foundations of Management	Data Mining	Introduction into Medical Technology and Systems
9													Procedural Programming	Stochastics	Numerical Mathematics I	Foundations of Management	Data Mining	Introduction into Medical Technology and Systems
10													Procedural Programming	Stochastics	Numerical Mathematics I	Foundations of Management	Data Mining	Introduction into Medical Technology and Systems
11													Procedural Programming	Stochastics	Numerical Mathematics I	Foundations of Management	Data Mining	Introduction into Medical Technology and Systems
12													Procedural Programming	Stochastics	Numerical Mathematics I	Foundations of Management	Data Mining	Introduction into Medical Technology and Systems
13	Linear Algebra	VL 4	Mathematical Analysis	VL 4	Mathematics III	VL 2	Graph Theory and Optimization	VL 2	Practical Course Data Science	PR 8	Bachelor Thesis							
14													Linear Algebra	Mathematical Analysis	Mathematics III	Graph Theory and Optimization	Practical Course Data Science	
15													Linear Algebra	Mathematical Analysis	Mathematics III	Graph Theory and Optimization	Practical Course Data Science	
16													Linear Algebra	Mathematical Analysis	Mathematics III	Graph Theory and Optimization	Practical Course Data Science	
17													Linear Algebra	Mathematical Analysis	Mathematics III	Graph Theory and Optimization	Practical Course Data Science	
18													Linear Algebra	Mathematical Analysis	Mathematics III	Graph Theory and Optimization	Practical Course Data Science	
19	MED II: Introduction to Biochemistry and Molecular Biology	VL 2	Programming Paradigms	VL 2	Algorithms and Data Structures	VL 4	Scientific Programming	VL 3	Ethics in Information Technology	VL 2	Ethics in Information Technology	VL 2						
21													MED II: Introduction to Biochemistry and Molecular Biology	Programming Paradigms	Algorithms and Data Structures	Scientific Programming	Ethics in Information Technology	
22													MED II: Introduction to Biochemistry and Molecular Biology	Programming Paradigms	Algorithms and Data Structures	Scientific Programming	Ethics in Information Technology	
23													MED II: Introduction to Biochemistry and Molecular Biology	Programming Paradigms	Algorithms and Data Structures	Scientific Programming	Ethics in Information Technology	
24													MED II: Introduction to Biochemistry and Molecular Biology	Programming Paradigms	Algorithms and Data Structures	Scientific Programming	Ethics in Information Technology	
25													MED II: Introduction to Biochemistry and Molecular Biology	Programming Paradigms	Algorithms and Data Structures	Scientific Programming	Ethics in Information Technology	
26	MED I: Introduction to Anatomy	VL 2	Programming Paradigms	VL 2	Algorithms and Data Structures	VL 4	Machine Learning	VL 2	Image Processing	VL 2	Image Processing	VL 2						
27													MED I: Introduction to Anatomy	Programming Paradigms	Algorithms and Data Structures	Machine Learning	Image Processing	
28													MED I: Introduction to Anatomy	Programming Paradigms	Algorithms and Data Structures	Machine Learning	Image Processing	
29													MED I: Introduction to Anatomy	Programming Paradigms	Algorithms and Data Structures	Machine Learning	Image Processing	
30													MED I: Introduction to Anatomy	Programming Paradigms	Algorithms and Data Structures	Machine Learning	Image Processing	
31													MED I: Introduction to Anatomy	Programming Paradigms	Algorithms and Data Structures	Machine Learning	Image Processing	
32	MED I: Introduction to Radiology and Radiation Therapy	VL 2	Programming Paradigms	VL 2	Algorithms and Data Structures	VL 4	MED II: Introduction to Physiology	VL 2	Image Processing	VL 2	Image Processing	VL 2						
33													MED I: Introduction to Radiology and Radiation Therapy	Programming Paradigms	Algorithms and Data Structures	MED II: Introduction to Physiology	Image Processing	

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.