Course of Study Civil- and Environmental Engineering (Study Cohort w24)

Sample course plan B Bachelor Civil- and Environmental Engineering (BUBS)

Specialisation Civil Engineering

Legend			
Core Qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
Core Qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

LP						
1	**Principles of Building Materials and Building Physics**	**Building Materials and Building Chemistry**	**Mathematics III - Differential Equations I**	**Reinforced Concrete Structures I**	**Steel Structures I**	**Applications in Civil + Environmental Engineering (part 2)**
2	Principles of Building Materials VL 2	Building Materials and Building Chemistry VL 4	Differential Equations 1 VL 2	Reinforced Concrete Design I VL 2	Steel Structures I VL 2	Selection from a catalog
3	Building Physics VL 2	Building Materials and Building Chemistry GÜ 1	Differential Equations 1 GÜ 1	Reinforced Concrete Design I HÜ 2	Steel Structures I HÜ 2	
4	Building Physics HÜ 1		Differential Equations 1 HÜ 1	Project Seminar Concrete I SE 1		
5	Building Physics GÜ 1					
6			**Structural Design**			**Steel Structures II**
7	**Chemistry**	**Construction Industry and Construction Management**	Basics of Structural Design VL 2	**Sanitary Engineering I**	**Hydraulic Engineering**	Steel Structures II VL 2
8	Chemistry I+II VL 4	Environmental Law VL 1	Basics in Structural Design HÜ 1	Wastewater Treatment VL 2	Hydraulics VL 1	Steel Structures II HÜ 2
9	Chemistry I+II HÜ 2	Construction Management VL 2	Basics in Structural Design PBL 2	Wastewater Treatment HÜ 1	Hydraulics PBL 1	
10		Construction Management HÜ 1		Drinking Water Supply VL 2	Hydraulic Engineering VL 2	**Building Information Modeling**
11		Law of Building Contracts VL 1	**Hydromechanics and Hydrology**	Drinking Water Supply HÜ 1	Hydraulic Engineering PBL 1	Building Information Modeling IV 2
12			Hydromechanics VL 2			Building Information Modeling GÜ 2
13	**Mathematics I**	**Mathematics II**	Hydromechanics PBL 1	**Structural Analysis II**	**Applications in Civil + Environmental Engineering (part 1)**	
14	Mathematics I VL 4	Mathematics II VL 4	Hydrology VL 1	Structural Analysis II VL 2	Selection from a catalog	
15	Mathematics I HÜ 2	Mathematics II HÜ 2	Hydrology PBL 1	Structural Analysis II HÜ 3		
16	Mathematics I GÜ 2	Mathematics II GÜ 2				**Bachelor Thesis**
17			**Soil Mechanics**		**Reinforced Concrete Structures II**	
18			Soil Mechanics VL 2		Concrete Structures II VL 2	
19			Soil Mechanics HÜ 2	**Foundation Engineering**	Concrete Structures II HÜ 2	
20			Soil Mechanics GÜ 2	Foundation Engineering VL 2	Project Concrete Structures II PS 1	
21	**Engineering Informatics**	**Water and Environment**		Foundation Engineering HÜ 2		
22	Object-oriented Modelling IV 2	Water in the Environment VL 2	**Structural Analysis I**	Foundation Engineering GÜ 2	**Structural Analysis III**	
23	Object-oriented Modelling GÜ 2	Project on Water, Environment, Traffic PBL 2	Structural Analysis I VL 2		Structural Analysis III VL 2	
24	Databases IV 1		Structural Analysis I HÜ 3		Structural Analysis III HÜ 1	
25	Databases GÜ 1			**Sustainable Building**		
26				Circular flow economy and structural recycling IV 2		
27	**Engineering Mechanics I (Stereostatics)**	**Engineering Mechanics II (Elastostatics)**		Sustainable building materials and buildings IV 2		
28	Engineering Mechanics I VL 2	Engineering Mechanics II VL 2		Sustainable water management and hydraulic engineering IV 2		
29	Engineering Mechanics I GÜ 2	Engineering Mechanics II GÜ 2				
30	Engineering Mechanics I HÜ 2	Engineering Mechanics II HÜ 2				
31						
32						

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.