Course of Study Civil- and Environmental Engineering (Study Cohort w22)

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

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

Specialisation Civil Engineering

LP						
1	**Principles of Building Materials and Building Physics**	**Building Materials and Building Chemistry**	**Structural Design**	**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	Basics of Structural Design 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	Basics in Structural Design HÜ 1	Reinforced Concrete Design I HÜ 2	Steel Structures I HÜ 2	
4	Building Physics HÜ 1		Basics in Structural Design PBL 2	Project Seminar Concrete I SE 1		
5	Building Physics GÜ 1					**Steel Structures II**
6						Steel Structures II VL 2
7	**Chemistry**	**Construction Industry and Construction Management**	**Geotechnics I**	**Sanitary Engineering I**	**Hydraulic Engineering**	Steel Structures II HÜ 2
8	Chemistry I+II VL 4	Environmental Law VL 1	Soil Mechanics VL 2	Wastewater Disposal VL 2	Hydraulics VL 1	
9	Chemistry I+II HÜ 2	Construction Management VL 2	Soil Mechanics HÜ 2	Wastewater Disposal HÜ 1	Hydraulics PBL 1	
10		Construction Management HÜ 1	Soil Mechanics GÜ 2	Drinking Water Supply VL 2	Hydraulic Engineering VL 2	
11		Law of Building Contracts VL 1		Drinking Water Supply HÜ 1	Hydraulic Engineering PBL 1	**Computational Structural Mechanics**
12						Computational Stuctural Mechanics IV 2
13	**Mathematics I**	**Mathematics II**	**Hydromechanics and Hydrology**	**Structural Analysis II**	**Applications in Civil / Environmental Engineering (part 1)**	Computational Structural Mechanics GÜ 1
14	Mathematics I VL 4	Mathematics II VL 4	Hydromechanics VL 2	Structural Analysis II VL 2	Selection from a catalog	**Bachelor thesis (dual study program)**
15	Mathematics I HÜ 2	Mathematics II HÜ 2	Hydromechanics PBL 1	Structural Analysis II HÜ 2		
16	Mathematics I GÜ 2	Mathematics II GÜ 2	Hydrology VL 1	Structural Analysis II GÜ 1		
17			Hydrology PBL 1			
18					**Practical module 5 (dual study program, Bachelor's degree)**	
19			**Structural Analysis I**	**Practical module 4 (dual study program, Bachelor's degree)**	Practical term 5 0	
20			Structural Analysis I VL 2	Practical term 4 0		
21	**Practical module 1 (dual study program, Bachelor's degree)**	**Water and Environment**	Structural Analysis I HÜ 2			
22	Practical term 1 0	Water in the Environment VL 2	Structural Analysis I GÜ 1			
23		Project on Water, Environment, Traffic PBL 2				
24					**Reinforced Concrete Structures II**	
25			**Mathematics III**	**Geotechnics II**	Concrete Structures II VL 2	
26			Analysis III VL 2	Foundation Engineering VL 2	Concrete Structures II HÜ 2	
27	**Engineering Mechanics I (Stereostatics)**	**Practical module 2 (dual study program, Bachelor's degree)**	Analysis III GÜ 1	Foundation Engineering HÜ 2	Project Concrete Structures II PS 1	
28	Engineering Mechanics I VL 2	Practical term 2 0	Analysis III HÜ 1	Foundation Engineering GÜ 2		
29	Engineering Mechanics I GÜ 2		Differential Equations 1 VL 2			
30	Engineering Mechanics I HÜ 1		Differential Equations 1 GÜ 1		**Engineering Informatics**	
31			Differential Equations 1 HÜ 1	**Sustainable Building**	Object-oriented Modelling IV 2	
32				Circular flow economy and structural recycling IV 2	Object-oriented Modelling GÜ 2	
33		**Engineering Mechanics II (Elastostatics)**	**Practical module 3 (dual study program, Bachelor's degree)**	Sustainable building materials and buildings IV 2	Databases IV 1	
34		Engineering Mechanics II VL 2	Practical term 3 0	Sustainable water management and hydraulic engineering IV 2	Databases GÜ 1	
35		Engineering Mechanics II GÜ 2				
36		Engineering Mechanics II HÜ 2				
37						
38						

Linking theory and practice (dual study program, Bachelor's degree) (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.