Course of Study Civil- and Environmental Engineering (Study Cohort w20)

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

Core Qualification Elective Compulsory Specialisation Elective Compulsory Focus Elective Compulsory

Thesis Compulsory Interdisciplinary complement

Special	isation Civil Engineering					
1 2	Principles of Building Materials and Building Physics 2 Principles of Building Materials VL 2 Building Physics VL 2	Building Materials and Building Chemistry Building Materials and Building Chemistry VL 4 Building Materials and Building Chemistry GÜ 1	Structural Design VL 2 Basics of Structural Design VL 2 Basics in Structural Design H0 1	Reinforced Concrete Structures I Reinforced Concrete Design I VL 2 Reinforced Concrete Design I HÜ 2	Steel Structures I VL 2 Steel Structures I H0 2	Applications in Civil / Environmental Engineering (part 2) Selection from a catalog
3 4	Building Physics HŪ 1 Building Physics GŨ 1		Basics in Structural Design PBL 2	Project Seminar Concrete I SE 1		
5 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	
-	Chemistry I+II HŪ 2	Construction Management VL 2	Soil Mechanics HÜ 2	Wastewater Disposal HŪ 1	Hydraulics PBL 1	
9		Construction Management HÜ 1	Soil Mechanics GÜ 2	Drinking Water Supply VL 2	Hydraulic Engineering VL 2	
10		Law of Building Contracts VL 1		Drinking Water Supply HŪ 1	Hydraulic Engineering PBL 1	
11						Computational Structural Mechanics
12						Computational Stuctural Mechanics IV 2
						Computational Structural Mechanics GÜ 1
13	Mathematics I	Mechanics II: Mechanics of Materials	Hydromechanics and Hydrology	Structural Analysis II	Applications in Civil / Environmental Engineering	
14	Linear Algebra I VL 2 Linear Algebra I GÜ 1	Mechanics II VL 2 Mechanics II GÜ 2	Hydromechanics VL 2 Hydromechanics PBL 1	Structural Analysis II VL 2 Structural Analysis II HŪ 2	(part 1) Selection from a catalog	Bachelor Thesis
15	Linear Algebra I GÜ 1 Linear Algebra I HÜ 1	Mechanics II GO 2 Mechanics II HÜ 2	Hydrology VL 1	Structural Analysis II HU 2	Selection normal catalog	
16	Analysis I VL 2	mechanics in 110 2	Hydrology PBL 1			
	Analysis I GÜ 1		2 · · · · 22			
17	Analysis I HŪ 1					
18					Reinforced Concrete Structures II	
19		Mathematics II	Structural Analysis I	Geotechnics II	Concrete Structures II VL 2	
20		Linear Algebra II VL 2	Structural Analysis I VL 2	Foundation Engineering VL 2	Concrete Structures II HÜ 2	
		Linear Algebra II GÜ 1	Structural Analysis I HÜ 2	Foundation Engineering HŪ 2	Project Concrete Structures II PS 1	
21	Mechanics I (Statics)	Linear Algebra II HÜ 1		Foundation Engineering GÜ 2		
22	Mechanics I VL 2 Mechanics I GÜ 2	Analysis II VL 2				
23	Mechanics I GO 2 Mechanics I HŪ 1	Analysis II HÜ 1				
24		Analysis II GÜ 1			Engineering Informatics	
25			Mathematics III	Sustainable Building	Object-oriented Modelling IV 2	
			Analysis III VL 2	Sustainable Building SE 3	Object-oriented Modelling GÜ 2	
26			Analysis III GŪ 1	Circular flow economy and structural recycling PBL 3	Databases IV 1	
27		Water and Environment	Analysis III HÜ 1		Databases GÜ 1	
28		Water in the Environment VL 2	Differential Equations 1 VL 2			
29		Project on Water, Environment, Traffic PBL 2	Differential Equations 1 GŪ 1			
30			Differential Equations 1 HÜ 1			1
					1	
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.