

Course of Study Civil- and Environmental Engineering (Study Cohort w21)

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

		Semester 2		Semester 3		Semester 4		Semester 5		Semester 6	
		Form Hrs/wk		Form Hrs/wk		Form Hrs/wk		Form Hrs/wk		Form Hrs/wk	
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										
6										Geoinformation Science	PBL 3
7	Chemistry	Construction Industry and Construction Management		Geotechnics I		Sanitary Engineering I		Hydraulic Engineering			
8	Chemistry I+II VL 4	Environmental Law VL 1		Soil Mechanics VL 2		Wastewater Disposal VL 2		Hydraulics VL 1		Sanitary Engineering II	
9	Chemistry I+II HÜ 2	Construction Management VL 2		Soil Mechanics HÜ 2		Wastewater Disposal HÜ 1		Hydraulics PBL 1		Drinking Water Treatment SE 2	
10		Construction Management HÜ 1		Soil Mechanics GÜ 2		Drinking Water Supply VL 2		Hydraulic Engineering VL 2		Management of Wastewater Infrastructure SE 2	
11		Law of Building Contracts VL 1				Drinking Water Supply HÜ 1		Hydraulic Engineering PBL 1			
12											
13	Mathematics I	Mechanics II: Mechanics of Materials		Hydromechanics and Hydrology		Structural Analysis II		Applications in Civil / Environmental Engineering (part 1)		Applied Water Management	
14	Linear Algebra I VL 2	Mechanics II VL 2		Hydromechanics VL 2		Structural Analysis II VL 2		Selection from a catalog		Groundwater Hydrology and Modeling VL 2	
15	Linear Algebra I GÜ 1	Mechanics II GÜ 2		Hydromechanics PBL 1		Structural Analysis II HÜ 2				Groundwater Hydrology and Modeling PBL 2	
16	Linear Algebra I HÜ 1	Mechanics II HÜ 2		Hydrology VL 1						Nature-oriented Hydraulic Engineering PBL 2	
17	Analysis I VL 2			Hydrology PBL 1							
18	Analysis I GÜ 1										
19	Analysis I HÜ 1										
20		Mathematics II		Structural Analysis I		Sustainable Building		Transportation Planning and Traffic Engineering			
21	Mechanics I (Statics)	Linear Algebra II VL 2		Structural Analysis I VL 2		Sustainable Building SE 3		Transport Planning and Traffic Engineering PBL 4			
22	Mechanics I VL 2	Linear Algebra II GÜ 1		Structural Analysis I HÜ 2		Circular flow economy and structural recycling PBL 3					
23	Mechanics I GÜ 2	Linear Algebra II HÜ 1									
24	Mechanics I HÜ 1	Analysis II VL 2									
25		Analysis II HÜ 1									
26		Analysis II GÜ 1		Mathematics III		Renewables Energy Systems					
27				Analysis III VL 2		Renewable Energy VL 2					
28		Water and Environment		Analysis III GÜ 1		Energy Systems and Energy Industry VL 2					
29		Water in the Environment VL 2		Analysis III HÜ 1		Power Industry VL 1					
30		Project on Water, Environment, Traffic PBL 2		Differential Equations 1 VL 2		Renewable Energy GÜ 1					
31				Differential Equations 1 GÜ 1							
32				Differential Equations 1 HÜ 1							
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.

