

Course of Study Civil- and Environmental Engineering (Study Cohort w19)

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

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

Year	Course	Credits	Course	Credits	Course	Credits	Course	Credits	Course	Credits
1	Principles of Building Materials and Building Physics		Structural Design		Hydromechanics and Hydrology		Reinforced Concrete Structures I		Steel Structures I	
2	Principles of Building Materials VL 2		Basics of Structural Design VL 2		Hydromechanics VL 2		Reinforced Concrete Design I VL 2		Steel Structures I VL 2	
3	Building Physics VL 2		Exercises in Structural Design HÜ 1		Hydromechanics PBL 1		Reinforced Concrete Design I HÜ 2		Steel Structures I HÜ 2	
4	Building Physics HÜ 1		Seminar in Structural Design PBL 2		Hydrology VL 1		Project Seminar Concrete I SE 1			
5	Building Physics GÜ 1				Hydrology PBL 1					
6										
7	Chemistry		Building Materials and Building Chemistry		Structural Analysis I		Construction Industry and Construction Management		Water Management	
8	Chemistry I VL 2		Building Materials and Building Chemistry VL 4		Structural Analysis I VL 2		Environmental Law VL 1		Groundwater Hydrology VL 2	
9	Chemistry II VL 2		Building Materials and Building Chemistry GÜ 1		Structural Analysis I HÜ 2		Construction Management VL 2		Groundwater Hydrology HÜ 2	
10	Chemistry I HÜ 1						Construction Management HÜ 1		Water Management and Water Quality VL 2	
11	Chemistry II HÜ 1						Law of Building Contracts VL 1			
12										
13	Mathematics I		Mechanics II: Mechanics of Materials		Foundations of Management		Geotechnics I		Reinforced Concrete Structures II	
14	Linear Algebra I VL 2		Mechanics II VL 2		Introduction to Management VL 3		Soil Mechanics VL 2		Concrete Structures II VL 2	
15	Linear Algebra I GÜ 1		Mechanics II GÜ 2		Management Tutorial GÜ 2		Soil Mechanics HÜ 2		Concrete Structures II HÜ 2	
16	Linear Algebra I HÜ 1		Mechanics II HÜ 2				Soil Mechanics GÜ 2		Project Concrete Structures II PS 1	
17	Analysis I VL 2									
18	Analysis I GÜ 1									
19	Analysis I HÜ 1									
20			Mathematics II		Mathematics III		Structural Analysis II		Geotechnics II	
21			Linear Algebra II VL 2		Analysis III VL 2		Structural Analysis II VL 2		Foundation Engineering VL 2	
22	Mechanics I (Statics)		Linear Algebra II GÜ 1		Analysis III GÜ 1		Structural Analysis II HÜ 2		Foundation Engineering HÜ 2	
23	Mechanics I VL 2		Linear Algebra II HÜ 1		Analysis III HÜ 1				Foundation Engineering GÜ 2	
24	Mechanics I GÜ 2		Analysis II VL 2		Differential Equations 1 VL 2					
25	Mechanics I HÜ 1		Analysis II HÜ 1		Differential Equations 1 GÜ 1					
26			Analysis II GÜ 1		Differential Equations 1 HÜ 1					
27							Hydraulic Engineering		Transportation Planning and Traffic Engineering	
28			Waste and Soil		Applications in Civil and Environmental Engineering (part 1)		Hydraulics VL 1		Transport Planning and Traffic Engineering PBL 4	
29			Waste resource Management VL 2		Selection from a catalog		Hydraulics PBL 1			
30			Waste resource Management HÜ 1				Hydraulic Engineering VL 2			
31			Waste, Biology and Soil VL 2				Hydraulic Engineering PBL 1			
32										
33							Applications in Civil and Environmental Engineering (part 2)			
							Selection from a catalog			

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.

