

Course of Study Civil- and Environmental Engineering (Study Cohort w18)

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

Legend:	Core qualification Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Thesis Compulsory
	Core qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

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

Nontechnical Complementary 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.

