

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

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

	Core Qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory	
	Core Qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement	
<b>Specialisation Water and Environment</b>					
1	<b>Principles of Building Materials and Building Physics</b>	<b>Building Materials and Building Chemistry</b>	<b>Structural Design</b>	<b>Reinforced Concrete Structures I</b>	<b>Steel Structures I</b>
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
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					<b>Geoinformation Science</b>
7	<b>Chemistry</b>	<b>Construction Industry and Construction Management</b>	<b>Geotechnics I</b>	<b>Sanitary Engineering I</b>	<b>Hydraulic Engineering</b>
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
12					
13	<b>Mathematics I</b>	<b>Mechanics II: Mechanics of Materials</b>	<b>Hydromechanics and Hydrology</b>	<b>Structural Analysis II</b>	<b>Applications in Civil / Environmental Engineering (part 1)</b>
14	Linear Algebra I VL 2	Mechanics II VL 2	Hydromechanics VL 2	Structural Analysis II VL 2	Selection from a catalog
15	Linear Algebra I GÜ 1	Mechanics II GÜ 2	Hydromechanics PBL 1	Structural Analysis II HÜ 2	
16	Linear Algebra I HÜ 1	Mechanics II HÜ 2	Hydrology VL 1		
17	Analysis I VL 2		Hydrology PBL 1		
18	Analysis I GÜ 1				
19	Analysis I HÜ 1				
20		<b>Mathematics II</b>	<b>Structural Analysis I</b>	<b>Sustainable Building</b>	<b>Transportation Planning and Traffic Engineering</b>
21	<b>Mechanics I (Statics)</b>	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			
27		<b>Water and Environment</b>	<b>Mathematics III</b>	<b>Renewable Energies</b>	
28		Water in the Environment VL 2	Analysis III VL 2	Renewable Energies I VL 2	
29		Project on Water, Environment, Traffic PBL 2	Analysis III HÜ 1	Renewable Energies II VL 2	
30			Differential Equations 1 VL 2	Renewable Energies I HÜ 1	
31			Differential Equations 1 GÜ 1	Renewable Energies II HÜ 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.

