

# Course of Study Civil- and Environmental Engineering (Study Cohort w23)

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

	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>	
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
3	Building Physics	VL 2	Building Materials and Building Chemistry	GÜ 1	Basics in Structural Design	HÜ 1	Reinforced Concrete Design 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								
7	<b>Chemistry</b>		<b>Construction Industry and Construction Management</b>		<b>Geotechnics I</b>		<b>Sanitary Engineering I</b>	
8	Chemistry I+II	VL 4	Environmental Law	VL 1	Soil Mechanics	VL 2	Wastewater Disposal	VL 2
9	Chemistry I+II	HÜ 2	Construction Management	VL 2	Soil Mechanics	HÜ 2	Wastewater Disposal	HÜ 1
10			Construction Management	HÜ 1	Soil Mechanics	GÜ 2	Drinking Water Supply	VL 2
11			Law of Building Contracts	VL 1			Drinking Water Supply	HÜ 1
12								
13	<b>Mathematics I</b>		<b>Mathematics II</b>		<b>Hydromechanics and Hydrology</b>		<b>Structural Analysis II</b>	
14	Mathematics I	VL 4	Mathematics II	VL 4	Hydromechanics	VL 2	Structural Analysis II	VL 2
15	Mathematics I	HÜ 2	Mathematics II	HÜ 2	Hydromechanics	PBL 1	Structural Analysis II	HÜ 2
16	Mathematics I	GÜ 2	Mathematics II	GÜ 2	Hydrology	VL 1	Structural Analysis II	GÜ 1
17								
18								
19								
20					<b>Structural Analysis I</b>		<b>Practical module 4 (dual study program, Bachelor's degree)</b>	
21	<b>Engineering Informatics</b>		<b>Water and Environment</b>		Structural Analysis I	VL 2	Practical term 4	0
22	Object-oriented Modelling	IV 2	Water in the Environment	VL 2	Structural Analysis I	HÜ 2	Selection from a catalog	
23	Object-oriented Modelling	GÜ 2	Project on Water, Environment, Traffic	PBL 2	Structural Analysis I	GÜ 1		
24	Databases	IV 1						
25	Databases	GÜ 1						
26								
27	<b>Practical module 1 (dual study program, Bachelor's degree)</b>		<b>Practical module 2 (dual study program, Bachelor's degree)</b>		<b>Mathematics III - Differential Equations I</b>		<b>Sustainable Building</b>	
28	Practical term 1	0	Practical term 2	0	Differential Equations 1	VL 2	Circular flow economy and structural recycling	IV 2
29					Differential Equations 1	GÜ 1	Sustainable building materials and buildings	IV 2
30					Differential Equations 1	HÜ 1	Sustainable water management and hydraulic engineering	IV 2
31								
32					<b>Practical module 3 (dual study program, Bachelor's degree)</b>			
33	<b>Engineering Mechanics I (Stereostatics)</b>		<b>Engineering Mechanics II (Elastostatics)</b>		Practical term 3	0		
34	Engineering Mechanics I	VL 2	Engineering Mechanics II	VL 2			<b>Renewable Energies</b>	
35	Engineering Mechanics I	GÜ 2	Engineering Mechanics II	GÜ 2			Renewable Energies I	VL 2
36	Engineering Mechanics I	HÜ 1	Engineering Mechanics II	HÜ 2			Renewable Energies I	HÜ 1
37							Fuels II	VL 1
38								
Linking theory and practice (dual study program, Bachelor's degree) (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.

