Course of Study Civil- and Environmental Engineering (Study Cohort w24)

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

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

LP						
1	**Principles of Building Materials and Building Physics**	**Building Materials and Building Chemistry**	**Mathematics III - Differential Equations I**	**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	Differential Equations 1 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	Differential Equations 1 GÜ 1	Reinforced Concrete Design I HÜ 2	Steel Structures I HÜ 2	
4	Building Physics HÜ 1		Differential Equations 1 HÜ 1	Project Seminar Concrete I SE 1		**Geoinformation Science**
5	Building Physics GÜ 1		**Structural Design**			Introduction to Geoinformation Science PBL 3
6			Basics of Structural Design VL 2			
7	**Chemistry**	**Construction Industry and Construction Management**	Basics in Structural Design HÜ 1	**Sanitary Engineering I**	**Hydraulic Engineering**	**Sanitary Engineering II**
8	Chemistry I+II VL 4	Environmental Law VL 1	Basics in Structural Design PBL 2	Wastewater Treatment VL 2	Hydraulics VL 1	Drinking Water Treatment SE 2
9	Chemistry I+II HÜ 2	Construction Management VL 2		Wastewater Treatment HÜ 1	Hydraulics PBL 1	Sustainable Wastewater Management SE 2
10		Construction Management HÜ 1	**Hydromechanics and Hydrology**	Drinking Water Supply VL 2	Hydraulic Engineering VL 2	
11		Law of Building Contracts VL 1	Hydromechanics VL 2	Drinking Water Supply HÜ 1	Hydraulic Engineering PBL 1	
12			Hydromechanics PBL 1			
13	**Mathematics I**	**Mathematics II**	Hydrology VL 1	**Structural Analysis II**	**Applications in Civil + Environmental Engineering (part 1)**	**Applied Water Management**
14	Mathematics I VL 4	Mathematics II VL 4	Hydrology PBL 1	Structural Analysis II VL 2	Selection from a catalog	Modelling of soil water dynamics VL 2
15	Mathematics I HÜ 2	Mathematics II HÜ 2		Structural Analysis II HÜ 3		Modelling of soil water dynamics PBL 2
16	Mathematics I GÜ 2	Mathematics II GÜ 2				Nature-oriented Hydraulic Engineering PBL 2
17			**Soil Mechanics**		**Transportation Planning and Traffic Engineering**	
18			Soil Mechanics VL 2		Transport Planning and Traffic Engineering IV 4	
19			Soil Mechanics HÜ 2	**Sustainable Building**		**Bachelor Thesis**
20			Soil Mechanics GÜ 2	Circular flow economy and structural recycling IV 2		
21	**Engineering Informatics**	**Water and Environment**		Sustainable building materials and buildings IV 2		
22	Object-oriented Modelling IV 2	Water in the Environment VL 2	**Structural Analysis I**	Sustainable water management and hydraulic engineering IV 2		
23	Object-oriented Modelling GÜ 2	Project on Water, Environment, Traffic PBL 2	Structural Analysis I VL 2			
24	Databases IV 1		Structural Analysis I HÜ 3			
25	Databases GÜ 1			**Renewable Energies**		
26				Renewable Energies I VL 2		
27	**Engineering Mechanics I (Stereostatics)**	**Engineering Mechanics II (Elastostatics)**		Renewable Energies II VL 2		
28	Engineering Mechanics I VL 2	Engineering Mechanics II VL 2		Renewable Energies I HÜ 1		
29	Engineering Mechanics I GÜ 2	Engineering Mechanics II GÜ 2		Fuels II VL 1		
30	Engineering Mechanics I HÜ 2	Engineering Mechanics II HÜ 2				
31						
32						

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.