

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

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

Specialisation Traffic and Mobility

	Core Qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory	Interdisciplinary complement	
	Core Qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory			
1	Principles of Building Materials and Building Physics Principles of Building Materials VL 2 Building Physics VL 2 Building Physics HÜ 1 Building Physics GÜ 1	Building Materials and Building Chemistry Building Materials and Building Chemistry VL 4 Building Materials and Building Chemistry GÜ 1	Structural Design Basics of Structural Design VL 2 Basics in Structural Design HÜ 1 Basics in Structural Design PBL 2	Reinforced Concrete Structures I Reinforced Concrete Design I VL 2 Reinforced Concrete Design I HÜ 2 Project Seminar Concrete I SE 1	Steel Structures I Steel Structures I VL 2 Steel Structures I HÜ 2	Applications in Civil + Environmental Engineering (part 2) Selection from a catalog
2						
3						
4						
5						
6						
7	Chemistry Chemistry I+II VL 4 Chemistry I+II HÜ 2	Construction Industry and Construction Management Environmental Law VL 1 Construction Management VL 2 Construction Management HÜ 1 Law of Building Contracts VL 1	Geotechnics I Soil Mechanics VL 2 Soil Mechanics HÜ 2 Soil Mechanics GÜ 2	Sanitary Engineering I Wastewater Disposal VL 2 Wastewater Disposal HÜ 1 Drinking Water Supply VL 2 Drinking Water Supply HÜ 1	Hydraulic Engineering Hydraulics VL 1 Hydraulics PBL 1 Hydraulic Engineering VL 2 Hydraulic Engineering PBL 1	Introduction to Railways Introduction to Railways VL 2 Introduction to Railways HÜ 1
8						
9						
10						
11						
12						
13	Mathematics I Mathematics I VL 4 Mathematics I HÜ 2 Mathematics I GÜ 2	Mathematics II Mathematics II VL 4 Mathematics II HÜ 2 Mathematics II GÜ 2	Hydromechanics and Hydrology Hydromechanics VL 2 Hydromechanics PBL 1 Hydrology VL 1 Hydrology PBL 1	Structural Analysis II Structural Analysis II VL 2 Structural Analysis II HÜ 2 Structural Analysis II GÜ 1	Applications in Civil + Environmental Engineering (part 1) Selection from a catalog	Planning Law and Environmental Law/ Sustainable Urban Development Planning law and Environmental law VL 2 Sustainable Urban Development VL 2
14						
15						
16						
17						
18						
19	Engineering Informatics Object-oriented Modelling IV 2 Object-oriented Modelling GÜ 2 Databases IV 1 Databases GÜ 1	Water and Environment Water in the Environment VL 2 Project on Water, Environment, Traffic PBL 2	Structural Analysis I Structural Analysis I VL 2 Structural Analysis I HÜ 2 Structural Analysis I GÜ 1	Mobility Concepts Mobility Research and Transportation Projects PBL 3 Mobility in Megacities and Developing Countries SE 3	Transportation Planning and Traffic Engineering Transport Planning and Traffic Engineering PBL 4	Bachelor Thesis
20						
21						
22						
23						
24						
25	Engineering Mechanics I (Stereostatics) Engineering Mechanics I VL 2 Engineering Mechanics I GÜ 2 Engineering Mechanics I HÜ 1	Engineering Mechanics II (Elastostatics) Engineering Mechanics II VL 2 Engineering Mechanics II GÜ 2 Engineering Mechanics II HÜ 2	Mathematics III - Differential Equations I Differential Equations 1 VL 2 Differential Equations 1 GÜ 1 Differential Equations 1 HÜ 1	Foundations of Management Introduction to Management VL 3 Management Tutorial GÜ 2		
26						
27						
28						
29						
30						
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.

