

Course Scheme Bachelor Civil- and Environmental Engineering (BUBS)

Re com. Term	Module Name (German)	Modul Name (English)	Institute	C/EC (1)	CM/OM (2)	Grade	Examination Form(3)	CP (4)	Course Name (German)	Course Name (English)	Course Form LV(5)	Language (6)	SWS (7)	Sem. LV
Core qualification Compulsory Courses: 168 LP Optional Courses: 0 LP														
1	Baustoffgrundlagen und Bauphysik	Principles of Building Materials and Building Physics	B-3	C	CM	Yes	Kl	6						
									Bauphysik	Building Physics	VL	DE	2	1
									Bauphysik	Building Physics	UE	DE	1	1
									Bauphysik	Building Physics	HÜ	DE	1	1
									Grundlagen der Baustoffe	Principles of Building Materials	VL	DE	2	1
1	Chemie	Chemistry	SD-B	C	CM	Yes	Kl	6						
									Chemie I	Chemistry I	VL	DE	2	1
									Chemie I	Chemistry I	HÜ	DE	1	1
									Chemie II	Chemistry II	VL	DE	2	1
									Chemie II	Chemistry II	HÜ	DE	1	1
1	Mathematik I	Mathematics I	E-10	C	CM	Yes	Kl	8						
									Analysis I	Analysis I	VL	DE	2	1
									Analysis I	Analysis I	UE	DE	1	1
									Analysis I	Analysis I	HÜ	DE	1	1
									Lineare Algebra I	Linear Algebra I	VL	DE	2	1
									Lineare Algebra I	Linear Algebra I	UE	DE	1	1
									Lineare Algebra I	Linear Algebra I	HÜ	DE	1	1
1	Mechanik I (Stereostatik)	Mechanics I (Statics)	M-13	C	CM	Yes	Kl	6						
									Mechanik I (Stereostatik)	Mechanics I (Statics)	VL	DE	2	1
									Mechanik I (Stereostatik)	Mechanics I (Statics)	UE	DE	2	1
									Mechanik I (Stereostatik)	Mechanics I (Statics)	HÜ	DE	1	1
2	Abfall und Boden	Waste and Soil	V-9	C	CM	Yes	Kl	6						
									Abfall, Biologie und Boden	Waste, Biology and Soil	VL	EN	2	2
									Abfallressourcenwirtschaft	Waste resource Management	VL	EN	2	2
									Abfallressourcenwirtschaft	Waste Resource Management	HÜ	EN	1	2
2	Baukonstruktion	Structural Design	B-3	C	CM	Yes	Kl	6						
									Grundlagen der Baukonstruktion	Basics of Structural Design	VL	DE	2	2
									Projektseminar Baukonstruktion	Seminar in Structural Design	HÜ	DE	1	2

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									Projektseminar Baukonstruktion	Seminar in Structural Design	SE	DE	2	2
2	Baustoffe und Bauchemie	Building Materials and Building Chemistry	B-3	C	CM	Yes	KI	6						
									Baustoffe und Bauchemie	Building Materials and Building Chemistry	VL	DE	4	2
									Baustoffe und Bauchemie	Building Materials and Building Chemistry	UE	DE	1	2
2	Mathematik II	Mathematics II	E-10	C	CM	Yes	KI	8						
									Analysis II	Analysis II	VL	DE	2	2
									Analysis II	Analysis II	UE	DE	1	2
									Analysis II	Analysis II	HÜ	DE	1	2
									Lineare Algebra II	Linear Algebra II	VL	DE	2	2
									Lineare Algebra II	Linear Algebra II	UE	DE	1	2
									Lineare Algebra II	Linear Algebra II	HÜ	DE	1	2
2	Mechanik II: Elastostatik	Mechanics II: Mechanics of Materials	M-15	C	CM	Yes	KI	6						
									Mechanik II	Mechanics II	VL	DE	2	2
									Mechanik II	Mechanics II	UE	DE	2	2
									Mechanik II	Mechanics II	HÜ	DE	2	2
3	Baustatik I	Structural Analysis I	B-4	C	CM	Yes	KI	6						
									Baustatik I	Structural Analysis I	VL	DE	2	3
									Baustatik I	Structural Analysis I	HÜ	DE	2	3
3	Grundlagen der Betriebswirtschaftslehre	Foundations of Management	W-11	C	CM	Yes	KI	6						
									Grundlagen der Betriebswirtschaftslehre	Introduction to Management	VL	DE	3	3
									Projekt Entrepreneurship	Project Entrepreneurship	POL	DE	2	3
3	Mathematik III	Mathematics III	0-UNIHH	C	CM	Yes	KI	8						
									Analysis III	Analysis III	VL	DE	2	3
									Analysis III	Analysis III	UE	DE	1	3
									Analysis III	Analysis III	HÜ	DE	1	3
									Differentialgleichungen 1 (Gewöhnliche Differentialgleichungen)	Differential Equations 1 (Ordinary Differential Equations)	VL	DE	2	3
									Differentialgleichungen 1 (Gewöhnliche Differentialgleichungen)	Differential Equations 1 (Ordinary Differential Equations)	UE	DE	1	3
									Differentialgleichungen 1 (Gewöhnliche Differentialgleichungen)	Differential Equations 1 (Ordinary Differential Equations)	HÜ	DE	1	3
3	Wasserbau I	Hydraulic Engineering I	B-10	C	CM	Yes	KI	6						
									Hydrologie	Hydrology	VL	DE	1	3
									Hydrologie	Hydrology	POL	DE	1	3

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									Hydromechanik	Hydromechanics	VL	DE	2	3
									Hydromechanik	Hydromechanics	HÜ	DE	1	3
3-4	Anwendungen im Bau- und Umweltingenieurwesen	Applications in Civil and Environmental Engineering	B-11	C	OM			6						
						No	SA	3	Angewandte numerische Methoden	Applied Numerical Methods	SE	DE	3	3
						No	MdP	2	Anwendungen der Baudynamik	Applied Structural Dynamics	VL	DE	2	3
						No	KI	3	AutoCAD	AutoCAD	UE	DE	2	3,4
						No	KI	4	Computerbasierte Tragwerksberechnungen	Computational Analysis of Structures	VL	DE	1	3
											HÜ	DE	1	3
						No	KI	2	Einführung in die Statistik mit R	Introduction in Statistics with R	VL	DE	1	3
											HÜ	DE	1	3
						No	HA	2	Praktikum Trinkwasserchemie	Practical Course in Drinking Water Chemistry	PR	DE	1	3
						No	SA	3	Building Information Modeling	Building Information Modeling	VL	DE	1	4
											HÜ	DE	2	4
						No	SA	4	Grundlagen der Geomatik	Principles of Geomatics	VL	DE	2	4
											UE	DE	2	4
						No	PA	2	Numerik und Matlab	Numeric and Matlab	PR	DE	2	4
						No	Re	2	Projekte II	Projects II	PS	DE	2	4
						No	MdP	2	Vorbeugender und abwehrender Brandschutz	Fire Protection and Prevention	VL	DE	2	4
4	Bau- und Umweltmanagement	Civil- and Enviromental Management	B-5	C	CM	Yes	KI	6						
									Bauprojektmanagement	Construction Management	VL	DE	2	4
									Bauprojektmanagement	Construction Management	HÜ	DE	1	4
									Bauvertragsrecht	Law of Building Contracts	VL	DE	1	4
									Umweltrecht	Environmental Law	VL	DE	1	4
4	Baustatik II	Structural Analysis II	B-4	C	CM	Yes	KI	6						
									Baustatik II	Structural Analysis II	VL	DE	2	4
									Baustatik II	Structural Analysis II	HÜ	DE	2	4
4	Geotechnik I	Geotechnics I	B-5	C	CM	Yes	KI	6						
									Bodenmechanik	Soil Mechanics	VL	DE	2	4
									Bodenmechanik	Soil Mechanics	UE	DE	2	4
									Bodenmechanik	Soil Mechanics	HÜ	DE	2	4
4	Massivbau I	Reinforced Concrete I	B-7	C	CM	Yes	KI	6						
									Projektseminar Massivbau I	Project Seminar Concrete I	SE	DE	1	4
									Stahlbetonbau I	Reinforced Concrete Design I	VL	DE	2	4
									Stahlbetonbau I	Reinforced Concrete Design I	HÜ	DE	2	4
4	Wasserbau II	Hydraulic Engineering II	B-10	C	CM	Yes	KI	6						

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									Hydraulik	Hydraulics	VL	DE	1	4
									Hydraulik	Hydraulics	HÜ	DE	1	4
									Wasserbau	Hydraulic Engineering	VL	DE	2	4
									Wasserbau	Hydraulic Engineering	HÜ	DE	1	4
5	Geotechnik II	Geotechnics II	B-5	C	CM	Yes	KI	6						
									Grundbau	Foundation Engineering	VL	DE	2	5
									Grundbau	Foundation Engineering	UE	DE	2	5
									Grundbau	Foundation Engineering	HÜ	DE	2	5
5	Massivbau II	Concrete Structures II	B-7	C	CM	Yes	KI	6						
									Projektseminar Stahlbetonbau II	Project Concrete Structures II	PS	DE	1	5
									Stahlbetonbau II	Concrete Structures II	VL	DE	3	5
									Stahlbetonbau II	Concrete Structures II	HÜ	DE	1	5
5	Stahlbau I	Steel Structures I	B-4	C	CM	Yes	KI	6						
									Stahlbau I	Steel Structures I	VL	DE	2	5
									Stahlbau I	Steel Structures I	HÜ	DE	2	5
5	Verkehrsplanung und Verkehrstechnik	Transportation Planning and Traffic Engineering	W-8	C	CM	Yes	PA	6						
									Verkehrsplanung und Verkehrstechnik	Transport Planning and Traffic Engineering	POL	DE	4	5
5	Wasserwirtschaft	Water Management	B-11	C	CM	Yes	KI	6						
									Grundwasserhydrologie	Groundwater Hydrology	VL	DE	1	5
									Grundwasserhydrologie	Groundwater Hydrology	HÜ	DE	1	5
									Wasserwirtschaft und Gewässergüte	Water Management and Water Quality	VL	DE	2	5
6	Siedlungswasserwirtschaft	Sanitary Engineering	B-2	C	CM	Yes	KI	6						
									Abwasserentsorgung	Wastewater Disposal	VL	DE	2	6
									Abwasserentsorgung	Wastewater Disposal	HÜ	DE	1	6
									Trinkwasserversorgung	Drinking Water Supply	VL	DE	2	6
									Trinkwasserversorgung	Drinking Water Supply	HÜ	DE	1	6
6	Stahlbau II	Steel Structures II	B-4	C	CM	Yes	KI	6						
									Stahlbau II	Steel Structures II	VL	DE	2	6
									Stahlbau II	Steel Structures II	HÜ	DE	2	6
1-6	Nichttechnische Ergänzungskurse im Bachelor	Nontechnical Complementary Courses for Bachelors	0-TUHH	C	OM			6	Selection out of Catalogue					
Thesis Compulsory Courses: 12 LP Optional Courses: 0 LP														
6	Bachelorarbeit	Bachelor Thesis	not defined	C	CM	Yes	lt. FSPO	12						

Explanation:

¹C=Compulsory, EC=Elective Compulsory

²CM=Compulsory Defined Module, OM=Optional Defined Module

³Re=Presentation, KI=Written exam, SA=Written elaboration, HA=Homework, KI=Written exam, MdIP=Oral exam, PA=Project, PA=Project, lt. FSPO=according to Subject Specific Regulations

⁴CP=Credit Points

⁵VL=Lecture, SE=Seminar, UE=Recitation Section (small), POL=Problem-based Learning, PR=Laboratory Course, PS=Project Seminar, HÜ=Recitation Section (large)

⁶DE=German, EN=English, DE/EN=German and English

⁷SWS=