

Exclosure to Subject Specific Regulations
 from 25.07.2018
 for Bachelor-Programme
 Bau- und Umweltingenieurwesen
 at TUHH
 Programme Director: Prof. Peter Fröhle
 Total: 180 CP
 Number of Specilisations to choose: 1

Course Scheme Bachelor Civil- and Environmental Engineering (BUBS)

Consolidated Version
 for Study Cohort: WiSe21/22
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 and Approval of Chair from:
 25.05.2022
 Replaces Version from: 31.03.2021
 In Force on: 01.10.2022
 Out of Force on: 31.03.2026

Information regarding the lectures are available in the TUHH modul manuals as well as in the course catalogue.

		Module					Examination			Course Work		
Re-com. Term	Module Name (German / English)	Language	ModuleResponsability	Institute	C/EC (1)	CM/OM (2)	CP (4)	Grade	Examination Form(3)	Compulsory	Course Work Type	Bonus (%)
Core Qualification Compulsory Courses: 135 LP Optional Courses: 0 LP												
1	Baustoffgrundlagen und Bauphysik / Principles of Building Materials and Building Physics	DE	Prof. Schmidt-Döhl	B-3	C	CM	6	Y	KL			
1	Chemie / Chemistry	DE	Dr. Rechtenbach	B-2	C	CM	6	Y	KL			
1	Mathematik I / Mathematics I	DE	Prof. Taraz	E-10	C	CM	8	Y	KL			
1	Mechanik I (Stereostatik) / Mechanics I (Statics)	DE	Prof. Seifried	M-13	C	CM	6	Y	KL			
2	Baustoffe und Bauchemie / Building Materials and Building Chemistry	DE	Prof. Schmidt-Döhl	B-3	C	CM	6	Y	KL	N	RE	10
2	Bauwirtschaft und Baumanagement / Construction Industry and Construction Management	DE	Prof. Grabe	B-5	C	CM	6	Y	KL			
2	Mathematik II / Mathematics II	DE	Prof. Taraz	E-10	C	CM	8	Y	KL			
2	Mechanik II: Elastostatik / Mechanics II: Mechanics of Materials	DE	Prof. Cyron	M-15	C	CM	6	Y	KL			
2	Wasser und Umwelt / Water and Environment	DE	Prof. Ernst	B-11	C	CM	6	Y	FFA			
3	Baukonstruktion / Structural Design	DE	Rybczynski	B-3	C	CM	6	Y	FFA			
3	Baustatik I / Structural Analysis I	DE	Prof. Oesterle	B-4	C	CM	6	Y	KL	N	SA	10
3	Geotechnik I / Geotechnics I	DE	Prof. Grabe	B-5	C	CM	6	Y	KL	N	TE	20
3	Hydromechanik und Hydrologie / Hydromechanics and Hydrology	DE	Prof. Fröhle	B-10	C	CM	6	Y	KL	Y	ÜA	0
										Y	FFST	0
										Y	GD	0
3	Mathematik III / Mathematics III	DE	Prof. Taraz	0-UNIHH-M	C	CM	8	Y	KL			
4	Baustatik II / Structural Analysis II	DE	Prof. Oesterle	B-4	C	CM	6	Y	KL	N	SA	10
4	Massivbau I / Reinforced Concrete Structures I	DE	Prof. Rombach	B-7	C	CM	6	Y	KL	N	ÜA	0

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	Module Name (German / English)	Language	ModuleResponsability	Institute	C/EC (1)	CM/OM (2)	CP (4)	Grade	Examination Form(3)	Compulsory	Course Work Type	Bonus (%)
4	Siedlungswasserwirtschaft I / Sanitary Engineering I	DE	Prof. Otterpohl	B-2	C	CM	6	Y	KL			
5	Stahlbau I / Steel Structures I	DE	Prof. Rutner	B-8	C	CM	6	Y	KL			
5	Wasserbau / Hydraulic Engineering	DE	Prof. Fröhle	B-10	C	CM	6	Y	KL	Y	FFST	0
5-6	Anwendungen im Bau- / Umweltingenieurwesen / Applications in Civil / Environmental Engineering	DE / EN	Prof. Fröhle	B-10	C	OM	9	Selection out of Catalogue below				
1-6	Nichttechnische Angebote im Bachelor / Non-technical Courses for Bachelors	DE / EN	Richter	0-TUHH	C	OM	6	Selection out of seperatly published Catalogue				

Specialisation Civil Engineering Compulsory Courses: 21 LP Optional Courses: 12 LP

4	Geotechnik II / Geotechnics II	DE	Prof. Grabe	B-5	C	CM	6	Y	KL	N	TE	20
4	Mobilitätskonzepte / Mobility Concepts	DE	Dr. Gaffron	W-8	EC	CM	6	Y	SA	Y	EX	0
4	Regenerative Energien / Renewable Energies	DE	Prof. Kaltschmitt	V-9	EC	CM	6	Y	KL			
4	Umweltgerechtes Bauen / Sustainable Building	DE	NN	B-3	EC	CM	6	Y	FFA			
5	Massivbau II / Reinforced Concrete Structures II	DE	Prof. Rombach	B-7	C	CM	6	Y	KL	N	ÜA	0
5	Bauinformatik / Engineering Informatics	DE	Prof. Smarsly	B-1	EC	CM	6	Y	KL	Y	SA	15
5	Grundlagen der Betriebswirtschaftslehre / Foundations of Management	DE	Prof. Ihl	W-11	EC	CM	6	Y	FFA			
5	Nichtlineare Baustatik / Non-linear structural analysis	DE	Prof. Oesterle	B-4	EC	CM	6	Y	KL			
5	Verkehrsplanung und Verkehrstechnik / Transportation Planning and Traffic Engineering	DE	Prof. Gertz	W-8	EC	CM	6	Y	FFA	Y	GD	0
										N	ÜA	5
6	Numerische Strukturmechanik / Computational Structural Mechanics	DE	Prof. Cyron	M-15	C	CM	3	Y	KL			
6	Stahlbau II / Steel Structures II	DE	Prof. Rutner	B-8	C	CM	6	Y	KL			
6	Angewandte Wasserwirtschaft / Applied Water Management	DE / EN	Prof. Fröhle	B-10	EC	CM	6	Y	FFA			
6	Building Information Modeling / Building Information Modeling	DE	Prof. Smarsly	B-1	EC	CM	6	Y	SA			
6	Grundlagen des Eisenbahnwesens / Introduction to Railways	DE	Prof. Gertz	W-8	EC	CM	6	Y	KL			
6	Planungs- und Umweltrecht/ Nachhaltige Stadtentwicklung / Planning Law and Environmental Law/ Sustainable Urban Development	DE	Prof. Otterpohl	B-2	EC	CM	6	Y	FFA			
6	Siedlungswasserwirtschaft II / Sanitary Engineering II	DE	Prof. Ernst	B-11	EC	CM	6	Y	FFA			

Specialisation Traffic and Mobility Compulsory Courses: 21 LP Optional Courses: 12 LP

4	Mobilitätskonzepte / Mobility Concepts	DE	Dr. Gaffron	W-8	C	CM	6	Y	SA	Y	EX	0
4	Geotechnik II / Geotechnics II	DE	Prof. Grabe	B-5	EC	CM	6	Y	KL	N	TE	20
4	Regenerative Energien / Renewable Energies	DE	Prof. Kaltschmitt	V-9	EC	CM	6	Y	KL			

Module							Examination			Course Work		
Re-com. Term	Module Name (German / English)	Language	ModuleResponsability	Institute	C/EC (1)	CM/OM (2)	CP (4)	Grade	Examination Form(3)	Compulsory	Course Work Type	Bonus (in %)
4	Umweltgerechtes Bauen / Sustainable Building	DE	NN	B-3	EC	CM	6	Y	FFA			
5	Verkehrsplanung und Verkehrstechnik / Transportation Planning and Traffic Engineering	DE	Prof. Gertz	W-8	C	CM	6	Y	FFA	Y	GD	0
										N	ÜA	5
5	Bauinformatik / Engineering Informatics	DE	Prof. Smarsly	B-1	EC	CM	6	Y	KL	Y	SA	15
5	Grundlagen der Betriebswirtschaftslehre / Foundations of Management	DE	Prof. Ihl	W-11	EC	CM	6	Y	FFA			
5	Massivbau II / Reinforced Concrete Structures II	DE	Prof. Rombach	B-7	EC	CM	6	Y	KL	N	ÜA	0
6	Geoinformation / Geoinformation Science	DE	Prof. Fröhle	B-10	C	CM	3	Y	FFA			
6	Grundlagen des Eisenbahnwesens / Introduction to Railways	DE	Prof. Gertz	W-8	C	CM	6	Y	KL			
6	Angewandte Wasserwirtschaft / Applied Water Management	DE / EN	Prof. Fröhle	B-10	EC	CM	6	Y	FFA			
6	Building Information Modeling / Building Information Modeling	DE	Prof. Smarsly	B-1	EC	CM	6	Y	SA			
6	Planungs- und Umweltrecht/ Nachhaltige Stadtentwicklung / Planning Law and Environmental Law/ Sustainable Urban Development	DE	Prof. Otterpohl	B-2	EC	CM	6	Y	FFA			
6	Siedlungswasserwirtschaft II / Sanitary Engineering II	DE	Prof. Ernst	B-11	EC	CM	6	Y	FFA			
6	Stahlbau II / Steel Structures II	DE	Prof. Rutner	B-8	EC	CM	6	Y	KL			

Specialisation Water and Environment Compulsory Courses: 21 LP Optional Courses: 12 LP

4	Umweltgerechtes Bauen / Sustainable Building	DE	NN	B-3	C	CM	6	Y	FFA			
4	Geotechnik II / Geotechnics II	DE	Prof. Grabe	B-5	EC	CM	6	Y	KL	N	TE	20
4	Mobilitätskonzepte / Mobility Concepts	DE	Dr. Gaffron	W-8	EC	CM	6	Y	SA	Y	EX	0
4	Regenerative Energien / Renewable Energies	DE	Prof. Kaltschmitt	V-9	EC	CM	6	Y	KL			
5	Verkehrsplanung und Verkehrstechnik / Transportation Planning and Traffic Engineering	DE	Prof. Gertz	W-8	C	CM	6	Y	FFA	Y	GD	0
										N	ÜA	5
5	Bauinformatik / Engineering Informatics	DE	Prof. Smarsly	B-1	EC	CM	6	Y	KL	Y	SA	15
5	Grundlagen der Betriebswirtschaftslehre / Foundations of Management	DE	Prof. Ihl	W-11	EC	CM	6	Y	FFA			
5	Massivbau II / Reinforced Concrete Structures II	DE	Prof. Rombach	B-7	EC	CM	6	Y	KL	N	ÜA	0
5	New Trends in Water and Environmental Research / New Trends in Water and Environmental Research	EN	Prof. Shokri	B-9	EC	CM	6	N	SA			
6	Geoinformation / Geoinformation Science	DE	Prof. Fröhle	B-10	C	CM	3	Y	FFA			
6	Siedlungswasserwirtschaft II / Sanitary Engineering II	DE	Prof. Ernst	B-11	C	CM	6	Y	FFA			
6	Angewandte Wasserwirtschaft / Applied Water Management	DE / EN	Prof. Fröhle	B-10	EC	CM	6	Y	FFA			
6	Building Information Modeling / Building Information Modeling	DE	Prof. Smarsly	B-1	EC	CM	6	Y	SA			
6	Grundlagen des Eisenbahnwesens / Introduction to Railways	DE	Prof. Gertz	W-8	EC	CM	6	Y	KL			

		Module					Examination			Course Work		
Re-com. Term	Module Name (German / English)	Language	ModuleResponsability	Institute	C/EC (1)	CM/OM (2)	CP (4)	Grade	Examination Form(3)	Compulsory	Course Work Type	Bonus (in %)
6	Planungs- und Umweltrecht/ Nachhaltige Stadtentwicklung / Planning Law and Environmental Law/ Sustainable Urban Development	DE	Prof. Otterpohl	B-2	EC	CM	6	Y	FFA			
6	Stahlbau II / Steel Structures II	DE	Prof. Rutner	B-8	EC	CM	6	Y	KL			
Thesis Compulsory Courses: 12 LP Optional Courses: 0 LP												
6	Bachelorarbeit / Bachelor Thesis		Professoren der TUHH	0-TUHH	C	CM	12	Y	AB			

Applications in Civil / Environmental Engineering

Course					Examination			
Course Name (German / English)	Course Form LV(5)	Language (6)	SWS (7)	Sem. LV	CP (4)	Grade	Examination Form(3)	Additional information
Anwendungen der Baudynamik / Applied Structural Dynamics	VL	DE	2	WiSe	2	N	MP	
Bodenmechanisches Praktikum / Soil Laboratory Course	PR	DE	1	WiSe	2	N	SA	
Computerbasierte Tragwerksberechnungen / Computational Analysis of Structures	VL	DE	2	WiSe	3	N	KL	
Digitales und nachhaltiges Bauen / Digitalization and sustainability in AEC	PS	EN	3	WiSe	3	N	SA	
Einführung in die Statistik mit R / Introduction in Statitics with R	VL	DE	1	WiSe	1	N	KL	
Einführung in die Statistik mit R / Introduction in Statitics with R	HÜ	DE	1	WiSe	1	N	KL	
Grundlagen der Geomatik / Principles of Geomatics	VL	DE	2	SoSe	2	N	SA	
Grundlagen der Geomatik / Principles of Geomatics	GÜ	DE	2	SoSe	2	N	SA	
Numerik und Matlab / Numeric and Matlab	PR	DE	2	SoSe	2	N	FFA	
Praktikum Trinkwasserchemie / Practical Course in Drinking Water Chemistry	PR	DE	1	WiSe	2	N	FFA	
Projekte II / Projects II	PS	DE	2	SoSe	2	N	RE	
Spezielle Themen des Bau- und Umweltingenieurwesens 1LP / Special topics of Civil- and Environmental Engineering		DE/EN	1	WiSe/SoSe	1	N	It. FSPO	
Spezielle Themen des Bau- und Umweltingenieurwesens 2LP / Special topics of Civil- and Environmental Engineering 2 LP		DE/EN	2	WiSe/SoSe	2	N	It. FSPO	
Spezielle Themen des Bau- und Umweltingenieurwesens 3LP / Special topics of Civil- and Environmental Engineering 3LP		DE/EN	3	WiSe/SoSe	3	N	It. FSPO	
Vorbeugender und abwehrender Brandschutz / Fire Protection and Prevention	VL	DE	2	SoSe	2	N	MP	

Explanation:

¹C=Compulsory, EC=Elective Compulsory

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

³KL=Written exam, SA=Written elaboration, FFA=Subject theoretical and practical work, FFST=Subject theoretical and practical work, MP=Oral exam, RE=Presentation, GD=Group discussion, AB=Thesis, ÜA=Excercises, EX=Participation in excursions, TE=Attestation, it. FSPO=according to Subject Specific Regulations

⁴CP=Credit Points

⁵VL=Lecture, SE=Seminar, GÜ=Recitation Section (small), PBL=Project-/problem-based Learning, PR=Practical Course, PS=Project Seminar, HÜ=Recitation Section (large), IV=Integrated Lecture

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

⁷SWS=Contact hours