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

Course Scheme Bachelor Civil- and Environmental Engineering (BUBS)

Consolidated Version
for Study Cohort: WiSe24/25
en_head_sda
and Approval of Chair from:
27.05.2026
Replaces Version from: 16.04.2025
In Force on: 01.10.2026
Out of Force on: 31.03.2029

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	Exami-nation Form(3)	Compulsory	Course Work Type	Bonus (in %)
Core Qualification Compulsory Courses: 135 LP Optional Courses: 0 LP													
	1	Bauinformatik / Engineering Informatics	DE	Prof. Smarsly	B-1	C	CM	6	Y	KL	Y	SA	15
	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. Le Borne	E-10	C	CM	8	Y	KL	Y	ÜA	10
	1	Technische Mechanik I (Stereostatik) / Engineering Mechanics I (Stereostatics)	DE	Prof. Kriegesmann	M-24	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. Lindner	E-10	C	CM	8	Y	KL	Y	ÜA	10
	2	Technische Mechanik II (Elastostatik) / Engineering Mechanics II (Elastostatics)	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	KL	Y	RE	0
	3	Baukonstruktion / Structural Design	DE	Rybczynski	B-3	C	CM	6	Y	KL	Y	FFST	20
	3	Baustatik I / Structural Analysis I	DE	Prof. Oesterle	B-4	C	CM	6	Y	KL			
	3	Bodenmechanik / Soil Mechanics	DE	Prof. Grabe	B-5	C	CM	6	Y	KL			
	3	Hydromechanik und Hydrologie / Hydromechanics and Hydrology	DE	Prof. Fröhle	B-10	C	CM	6	Y	KL	Y	GD	0
											Y	ÜA	0
	3	Mathematik III - Differentialgleichungen I / Mathematics III - Differential Equations I	DE	Dozenten des Fachbereiches Mathematik der UHH	0-UNIHH-M	C	CM	4	Y	KL			

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	4	Baustatik II / Structural Analysis II	DE	Prof. Oesterle	B-4	C	CM	6	Y	KL			
	4	Massivbau I / Reinforced Concrete Structures I	DE	Dr. Faron	B-7	C	CM	6	Y	KL	N	ÜA	0
	4	Siedlungswasserwirtschaft I / Sanitary Engineering I	DE	Dr. Rechtenbach	V-11	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. Oesterle	B-4	C	OM	7	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	Grundbau / Foundation Engineering	DE	Prof. Grabe	B-5	C	CM	6	Y	KL			
	4	Mobilitätskonzepte / Mobility Concepts	DE	Dr. Hekler	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	Prof. Fröhle	B-10	EC	CM	6	Y	FFA			
	5	Baustatik III / Structural Analysis III	DE	Prof. Oesterle	B-4	C	CM	3	Y	KL			
	5	Massivbau II / Reinforced Concrete Structures II	DE	Dr. Faron	B-7	C	CM	6	Y	KL	N	ÜA	0
	5	Grundlagen der Betriebswirtschaftslehre / Foundations of Management	DE	Prof. Meyer	W-1	EC	CM	6	Y	FFA			
	5	Verkehrsplanung und Verkehrstechnik / Transportation Planning and Traffic Engineering	DE	Prof. Gertz	W-8	EC	CM	6	Y	FFA	N	ÜA	5
	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	RE			
	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. Fröhle	B-10	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. Hekler	W-8	C	CM	6	Y	SA	Y	EX	0
	4	Grundbau / Foundation Engineering	DE	Prof. Grabe	B-5	EC	CM	6	Y	KL			
	4	Regenerative Energien / Renewable Energies	DE	Prof. Kaltschmitt	V-9	EC	CM	6	Y	KL			
	4	Umweltgerechtes Bauen / Sustainable Building	DE	Prof. Fröhle	B-10	EC	CM	6	Y	FFA			

	Module							Examination			Course Work		
	Re-com. Term	Module Name (German / English)	Language	ModuleResponsability	Institute	C/EC (1)	CM/ OM (2)	CP (4)	Grade	Exami-nation Form(3)	Compulsory	Course Work Type	Bonus (in %)
	5	Verkehrsplanung und Verkehrstechnik / Transportation Planning and Traffic Engineering	DE	Prof. Gertz	W-8	C	CM	6	Y	FFA	N	ÜA	5
	5	Grundlagen der Betriebswirtschaftslehre / Foundations of Management	DE	Prof. Meyer	W-1	EC	CM	6	Y	FFA			
	5	Massivbau II / Reinforced Concrete Structures II	DE	Dr. Faron	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	RE			
	6	Planungs- und Umweltrecht/ Nachhaltige Stadtentwicklung / Planning Law and Environmental Law/ Sustainable Urban Development	DE	Prof. Fröhle	B-10	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	Prof. Fröhle	B-10	C	CM	6	Y	FFA			
	4	Grundbau / Foundation Engineering	DE	Prof. Grabe	B-5	EC	CM	6	Y	KL			
	4	Mobilitätskonzepte / Mobility Concepts	DE	Dr. Hekler	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	N	ÜA	5
	5	Grundlagen der Betriebswirtschaftslehre / Foundations of Management	DE	Prof. Meyer	W-1	EC	CM	6	Y	FFA			
	5	Massivbau II / Reinforced Concrete Structures II	DE	Dr. Faron	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	FFA			
	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	RE			
	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. Fröhle	B-10	EC	CM	6	Y	FFA			

	Module							Examination			Course Work		
	Re-com. Term	Module Name (German / English)	Language	ModuleResponsability	Institute	C/EC (1)	CM/ OM (2)	CP (4)	Grade	Exami-nation Form(3)	Compulsory	Course Work Type	Bonus (in %)
	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 im Bau- + Umweltwesen (dual) - 7 LP / Applications in Civil + Environmental Engineering (dual) - 7 CP		DE/EN	0	WiSe/SoSe	7	N	SA	
Anwendungen im Bau- + Umweltwesen (dual) - 9 LP / Applications in Civil + Environmental Engineering (dual) - 9 CP		DE/EN	0	WiSe/SoSe	9	N	SA	
Bodenmechanisches Praktikum / Soil Laboratory Course	PR	DE	1	WiSe	2	N	SA	
Computergestütztes Entwerfen und Konstruieren im Stahlbau / Computer-aided design and construction in steel construction	VL	DE	2	SoSe	3	N	SA	
Einführung in die Statistik mit R / Introduction in Statistics with R	VL	DE	1	WiSe	1	N	SA	
Einführung in die Statistik mit R / Introduction in Statistics with R	HÜ	DE	1	WiSe	1	N	SA	
Exkursion Bau- und Umweltingenieurwesen 1 LP / Excursion Civil- and Environmental Engineering 1 LP		DE/EN	0	WiSe/SoSe	1	N	FFA	
Exkursion Bau- und Umweltingenieurwesen 2 LP / Excursion Civil and Environmental Engineering 2 LP		DE/EN	0	WiSe/SoSe	2	N	FFA	
Exkursion Bauprojekte / Excursion construction projects	PS	DE	2	SoSe	2	N	RE	
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	
Grundlagen des Holzbaus / Fundamentals of timber construction	VL	DE	2	WiSe	4	N	SA	
Praktikum Trinkwasserchemie / Practical Course in Drinking Water Chemistry	PR	DE	1	WiSe	2	N	FFA	
Spezielle Themen des Bau- und Umweltingenieurwesens 1LP / Special topics of Civil- and Environmental Engineering 1 LP		DE/EN	1	WiSe/SoSe	1	N	FFA	
Spezielle Themen des Bau- und Umweltingenieurwesens 2LP / Special topics of Civil- and Environmental Engineering 2 LP		DE/EN	2	WiSe/SoSe	2	N	FFA	
Spezielle Themen des Bau- und Umweltingenieurwesens 3LP / Special topics of Civil- and Environmental Engineering 3LP		DE/EN	3	WiSe/SoSe	3	N	FFA	

Course					Examination			
Course Name (German / English)	Course Form LV(5)	Language (6)	SWS (7)	Sem. LV	CP (4)	Grade	Examination Form(3)	Additional information
Verkehrswegebau / transportation infrastructure construction	VL	DE	2	SoSe	2	N	RE	
Wasser und Energie / Water and Energy	IV	DE	2	SoSe	2	N	SA	
Wissenschaftliche Visualisierung für Ingenieurinnen und Ingenieure / Scientific Visualization for Engineers	IV	EN	4	WiSe	4	N	RE	

Explanation:

[1]C=Compulsory, EC=Elective Compulsory
[2]CM=Compulsory Defined Module, OM=Optional Defined Module
[3]KL=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, SA lt. FPrO=Written elaboration (accord. to Internship Regulations)
[4]CP=Credit Points
[5]VL=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
[6]DE=German, EN=English, DE/EN=German and English
[7]SWS=Contact hours