

Exclosure to Subject Specific Regulations
 from 25.07.2018
 for Master-Programme
 Environmental Engineering
 at TUHH
 Programme Director: Prof. Mathias Ernst
 Total: 120 CP
 Number of Specialisations to choose: 1



Course Scheme Master Environmental Engineering (IMPEE)

Consolidated Version
 for Study Cohort: WiSe18/19
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 and Approval of Chair from:
 24.04.2019
 Replaces Version from: 25.07.2018
 In Force on: 01.10.2018
 Out of Force on: 30.09.2021

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

Re-com. Term	Module						Examination			Course Work		
	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 %)
Core qualification Compulsory Courses: 42 LP Optional Courses: 18 LP												
1	Abfallbehandlungstechnologien / Waste Treatment Technologies	DE / EN	Prof. Kuchta	V-9	C	CM	6	Y	RE	Y	FFST	0
1	Nachhaltiges Wassermanagement und Mikrobiologie der Trinkwasserversorgung / Sustainable Water Management and Microbiology of Water Supply	EN	Prof. Ernst	B-11	C	CM	6	Y	KL	Y	RE	20
1	Strömungsmechanik, Hydraulik und Geoinformationssysteme im Wasserbau / Fluid Mechanics, Hydraulics and Geo-information-systems in Water Management	DE / EN	Prof. Fröhle	B-10	C	CM	6	Y	KL			
1	Umweltanalytik und wassertechnisches Praktikum / Environmental Analysis and water technology practice	DE / EN	Dr. Rechtenbach	B-2	C	CM	6	Y	KL			
1	Umweltschutz und -management / Environmental Protection and Management	EN	Prof. Otterpohl	B-2	C	CM	6	Y	KL			
2	Hydrologische Systeme / Hydrological Systems	DE / EN	Prof. Fröhle	B-10	EC	CM	6	Y	KL			
2	Ingenieurgeochemie / Geochemical Engineering	EN	Dr. Gerth	V-9	EC	CM	6	Y	KL			
2	Management von Oberflächenwasser / Management of Surface Water	DE / EN	Prof. Fröhle	B-10	EC	CM	6	Y	KL			
2	Nexus Engineering - Wasser, Boden, Nahrung und Energie / Nexus Engineering - Water, Soil, Food and Energy	EN	Prof. Otterpohl	B-2	EC	CM	6	Y	FFA			
2	Städtisches Umweltmanagement / Urban Environmental Management	EN	Dr. Rechtenbach	B-2	EC	CM	6	Y	SA			
2	Technische Mikrobiologie / Technical Microbiology	EN	Dr. Krüger	V-7	EC	CM	6	Y	KL			

Module							Examination			Course Work		
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2-3	Ausgewählte Themen des Umweltingenieurwesens / Selected Topics in Environmental Engineering	DE / EN	Prof. Ernst	B-11	EC	OM	6	Selection out of Catalogue below				
1-3	Nichttechnische Ergänzungskurse im Master / Nontechnical Elective Complementary Courses for Master	DE / EN	Richter	0-TUHH	C	OM	6	Selection out of seperatly published Catalogue				
1-3	Betrieb & Management / Business & Management	DE / EN	Prof. Meyer	W-1	C	OM	6	Selection out of seperatly published Catalogue				

Specialisation Waste and Energy Compulsory Courses: 12 LP Optional Courses: 18 LP

2	Abfall und Energie / Waste and Energy	EN	Prof. Kuchta	V-9	EC	CM	6	Y	RE	Y	SA	20
3	Studienarbeit Abfall und Energie / Study Work Waste and Energy		Dozenten des SD B	V-9	C	CM	12	Y	STA			
3	Abwasserreinigung und Luftreinhaltung / Wastewater Treatment and Air Pollution Abatement	DE / EN	Dr. Hartge	V-3	EC	CM	6	Y	KL			
3	Bioressourcen und Bioraffinerien / Bioresources and Biorefineries	EN	Dr. Körner	B-2	EC	CM	6	Y	KL			
3	Spezielle Aspekte des Abfallressourcenmanagements / Special Aspects of Waste Resource Management	EN	Prof. Kuchta	V-9	EC	CM	6	Y	RE	Y	SA	20

Specialisation Biotechnology Compulsory Courses: 12 LP Optional Courses: 18 LP

2	Bioprozess- und Biosystemtechnik / Bioprocess and Biosystems Engineering	EN	Prof. Zeng	V-1	EC	CM	6	Y	KL	Y	RE	20
3	Studienarbeit Biotechnologie / Study Work Biotechnology		Dozenten des SD B	V-1	C	CM	12	Y	STA			
3	Biokatalyse / Biocatalysis	EN	Prof. Liese	V-6	EC	CM	6	Y	KL			
3	Bioressourcen und Bioraffinerien / Bioresources and Biorefineries	EN	Dr. Körner	B-2	EC	CM	6	Y	KL			

Specialisation Water Compulsory Courses: 12 LP Optional Courses: 18 LP

2	Grundwassermodellierung / Groundwater Modeling	EN	NN	B-11	EC	CM	6	Y	KL			
3	Studienarbeit Wasser / Study Work Water		Dozenten des SD B	B-11	C	CM	12	Y	STA			
3	Gewässerschutz / Water Protection	EN	Prof. Otterpohl	B-2	EC	CM	6	Y	RE			
3	Ländliche Entwicklung und Ressourcen Orientierte Sanitärsysteme für verschiedene Klimate / Rural Development and Resources Oriented Sanitation for different Climate Zones	EN	Prof. Otterpohl	B-2	EC	CM	6	Y	FFA			
3	Membran Technologie / Membrane Technology	EN	Prof. Ernst	B-11	EC	CM	6	Y	KL			
3	Modellierung von Prozessen in der Wassertechnologie / Process Modeling in Water Technology	DE / EN	Dr. Johannsen	B-11	EC	CM	6	Y	KL			

Module							Examination			Course Work		
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Thesis Compulsory Courses: 30 LP Optional Courses: 0 LP												
4	Masterarbeit / Master Thesis		Professoren der TUHH	0-TUHH	C	CM	30	Y	AB			

Selected Topics in 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
Aquatische Umweltchemie / Environmental Aquatic Chemistry	VL	EN	2	SoSe	3	Y	KL	
Exzellenz im Internationalen Projektgeschäft / Excellence in International Project Delivery	IV	EN	2	SoSe	2	N	It. FSPO	
Hydrobiologie / Hydrobiology	VL	EN	2	SoSe	3	Y	SA	
Schlammbehandlung / Sludge Treatment	VL	EN	2	SoSe	3	Y	KL	
Thermische Biomassenutzung / Thermal Utilization of Biomass	VL	DE	2	WiSe	2	Y	KL	
Thermische Biomassenutzung / Thermal Utilization of Biomass	UE	DE	1	WiSe	1	Y	KL	

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, STA=Study work, AB=Thesis

⁴CP=Credit Points

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

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

⁷SWS=Contact hours