



Master's Degree Programme Umweltingenieurwesen – English Track Resources and Environment

(PO'19)

Name:	Matr.-No.:	Date:			
Sem.	Master Umweltingenieurwesen Programme – Pathway (Start in winter semester) PO'19				CP
1.	Compulsory Module MNG 3 CP	Compulsory Modules FSG 12 CP	Elective Modules FSV 9 CP	Elective Module FSV/ Integration Module ÜI 6 CP	30
2.	Compulsory Module MNG 3 CP	Compulsory Modules FSG 18 CP	Elective Module FSV 3 CP	Compulsory Module FSV 6 CP	30
3.	Mobility Window: Required Elective Interdisciplinary Project (12 CP) and Elective Modules FSV (18 CP) or Required Elective Practical Project (30 CP)				30
4.	Elective Module ÜI 6 CP	Master's Thesis 24 CP			30

Fund. of Math. and Phys. Science

Professional Specialisation

Academic Paper

Professional Fundamentals

Comprehensive Studies

Legend

KB	Area of Expertise	D	German
MNG	Fundamentals of Mathematical and Physical Science	E	English
FSG	Professional Fundamentals	P	Compulsory module
FSV	Professional Specialisation	WP	Compulsory elective module
ÜI	Comprehensive Studies	W	Elective module
SG	Studium Generale	WSF	E-Learning module in WiSe
WA	Academic Paper	WSP/SSF	In-class module in WiSe/E-Learning module in SoSe
(*)	Alternatively, the module can be completed in English, please refer to the module catalogue	SSP+F	In-class and E-Learning module in SoSe
(**)	Alternatively, the module can be completed in German, please refer to the module catalogue	WS/SS	Module is offered in SoSe and WiSe

		Module	WS/SS	Language	CP	P/W KB	Self Planning				
							1	2	3	4	Σ
1. MNG	6 CP	Hydrochemistry and -biology	WS	E	3	P MNG					
		Meteorology and Climatology	WS	E	3	P MNG					
2. FSG	30 CP	Flow Et Transport Processes	SS	E	6	P FSG					
		Hydrology and Water Resources Management	WS	E	6	P FSG					
		Industrial Water Supply and Water Management	SS	E	6	P FSG					
		Infrastructures for Water Supply and Wastewater Disposal (**)	WS	E	6	P FSG					
		Solid Waste Management	SS	E	6	P FSG					
3. FSV	48 - 54 CP	Current Topics in Environmental Engineering (**)	SS	E	6	P FSV					
		Interdisciplinary Project	WS/SS	D u E	12	WP FSV					
		Practical Project	WS/SS	D u E	30	WP FSV					
		Coastal and Estuarine Management	WS	E	6	W FSV					
		Ecology and Water Quality	SS	E	6	W FSV					
		Ecology and Water Quality Management	SS	E	9	W FSV					
		Field Measuring Techniques in Coastal Engineering	SS	E	6	W FSV					
		Grundlagen des Umweltingenieurwesens	SS	D	6	W FSV					
		Grundwassermodellierung	SS	D	6	W FSV					
		Hydrogeologie der Umweltschadstoffe	SS	D	6	W FSV					
		Hydrological Extremes (**)	SS	E	6	W FSV					
		Hydrosystemmodellierung	WS	D	6	W FSV					
		Innovative Bioprocesses for Wastewater/Waste Valorization	WS	E	6	W FSV					
		Küsteningenieurwesen	WS	D	6	W FSV					
		Maritime and Port Engineering	SS	E	6	W FSV					
		Massivbau – Ingenieurbauwerke im Wasserbau	SS	D	6	W FSV					
		Modelling in Sanitary Engineering	SS	E	6	W FSV					
		Modelltechnik im Küsteningenieurwesen	WS	D	6	W FSV					
		Numerical Methods in Fluid Mechanics	SS	E	6	W FSV					
		Praxis der Umweltbiologie und -chemie - Umwelt	WS	D	6	W FSV					
		Praxis der Umweltbiologie und -chemie - Wasser	WS	D	6	W FSV					
		Projektierung von Bioenergieanlagen	SS	D	6	W FSV					
		Recycling and Circular Economy	WS	E	6	W FSV					
		Special Topics in Hydrology and Water Resources Management	WS/SS	E	3	W FSV					
		Special Topics in Sanitary Engineering	WS	E	3	W FSV					
		Stoff- und Wärmetransport	WS	D	6	W FSV					
		Urban Hydrology	SS	E	3	W FSV					
		Wasser- und Abwassertechnik	SS	D	6	W FSV					
		Wasserbau und Verkehrswasserbau	SS	D	6	W FSV					
		Wetland Ecology and Management with Excursion	SS	E	6	W FSV					
Wind Energy Technology I (**)	SS	E	6	W FSV							
Wind Energy Technology II (**)	WS	E	6	W FSV							
WindLAB: Hands on Wind Energy (NEU ab SoSe 2025)	SS	E	6	W FSV							
Sub total:											



Module		WS/SS	Language	CP	P/W KB	1	2	3	4	Σ
Carry over:										
4. ÜI 6 - 12 CP	Betontechnik für Ingenieurbauwerke	WS	D	6	W ÜI					
	Continuum Mechanics of multiphase porous Materials (NEW in WS 23/24)	WS	D u E	6	W ÜI					
	Damm- und Spezialtiefbau	WS	D	6	W ÜI					
	Energieeffizienz bei Gebäuden	WS	D	6	W ÜI					
	Foundations of Computational Engineering	WS/SS	E	6	W ÜI					
	Hydromechanics of Offshore Structures	WS	E	6	W ÜI					
	Hydropower Engineering	WS	E	6	W ÜI					
	Innovatives Bauen mit Beton - Betontechnologie der Sonderbetone	SS	D	6	W ÜI					
	Konstruieren im Stahlbau	WS	D	6	W ÜI					
	Machine Learning for Material and Structural Mechanics	WS	E	6	W ÜI					
	Marine Construction Logistics	SS	E	6	W ÜI					
	Nachhaltig Konstruieren und Bauen	SS	D	6	W ÜI					
	Particle methods for Engineering Mechanics I (NEW in WS 23/24)	WS	E	6	W ÜI					
	Particle methods for Engineering Mechanics II (NEW in SoSe 2024)	SS	E	6	W ÜI					
	Reliable Simulation in the Mechanics of Materials and Structures (NEW in WS 23/24)	WS	E	6	W ÜI					
	Sonderthemen des Stahl-, Stahlverbund- und Leichtbaus	SS	D	6	W ÜI					
	Stahl- und Verbundbrückenbau (nicht im WS 23/24)	WS	D	6	W ÜI					
	Statistik mit R	SS	D	3	W ÜI					
	Systems and Network Analysis	WSP/SSF	E	6	W ÜI					
	Tragsicherheit im Stahlbau	WS	D	6	W ÜI					
Tragstrukturen von Offshore-Windenergieanlagen	WS	D	6	W ÜI						
Umweltgeotechnik	WS	D	6	W ÜI						
Water Resources Systems Analysis	WS	E	6	W ÜI						
Studium Generale (Integration modules/useful complement of further modules from the other offer of the LUH), e.g.										
5. WA 24 CP	Master's Thesis	WS/SS	D u E	24	P WA					
Total:										

Course Website: <http://www.fbg.uni-hannover.de/uiwmisc>