



Name:	Matr.-No.:	Date:			
Sem.	Master Umweltingenieurwesen Programme – Pathway (Start in winter semester) PO'19				CP
1.	Compulsory Module MNG 6 CP	Compulsory Modules FSG 12 CP	Elective Modules FSV 6 CP	Elective Module FSV/ Integration Module ÜI 6 CP	30
2.	Compulsory Modules FSG 18 CP		Compulsory Module FSV 6 CP	Elective Modules 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

		Self Planning							
Module	WS/SS	Language	CP	P/W KB	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 (not in SoSe 2024)	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	SS	E	3	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					
	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/SS	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	WS	E	6	W ÜI					
	Particle methods for Engineering Mechanics II (NEW in SoSe 2024)	SS	E	6	W ÜI					
	Porous Media Mechanics ((former Continuum Mechanics of multiphase porous Materials))	WS/SS	E	6	W ÜI					
	Reliable Simulation in the Mechanics of Materials and Structures	WS/SS	F	6	W ÜI					
	Sonderthemen des Stahl-, Stahlverbund- und Leichtbaus (nicht im SoSe 2024)	SS	D	6	W ÜI					
	Stahl- und Verbundbrückenbau	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>