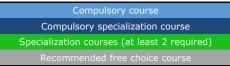
Suggested learning paths Specialisation A - Hydrology and Water Resources



Ecohydrology (thesis SLM)

		Period 1	Period 2	Period 3	Period 4	Period 5	Period 6
MSc 1	мо	YWU-30306 Interdisciplinary Topics in Earth and Environment	HWM-33306 Coastal Oceanography and Delta Geology OR SLM-30806 Land Degradation and Development OR INF-22306 Programming in Python OR WSG-35306 Modelling Future Water Stress	HWM-33806 Water and Air Flow Numerical Techniques	MAQ-35306 Urban Hydrometeorology OR SLM-31306 Fundamentals of Land Management OR GRS-33306 Spatial and Temporal Analysis for Earth and Environment	Hydrometeorology OR SLM-31306 amentals of Land Management OR GRS-33306 ial and Temporal /sis for Earth and	YMC-60809 Academic Consultancy Training
	AF	YWU-30806 Environmental Data Collection and Analysis	SLM-32806 Ecohydrology		OR WSG-34806 Climate Change Adaptation in Water Management OR AEW-31306 Water Quality	GRS-20806 Geo-information tools OR WSG-60812 Design of Climate Change Mitigation Strategies OR GRS-32306 Advanced Earth Observation	

Hydrological Modelling and Global Change; Operational Water Management; Hydrometeorology (thesis HWM)

		Period 1	Period 2	Period 3	Period 4	Period 5	Period 6
MSc 1	мо	YWU-30306 Interdisciplinary Topics in Earth and Environment	HWM-33306 Coastal Oceanography and Delta Geology OR INF-33806 Big Data OR INF-22306 Programming in Python OR MAQ-32306 Boundary-Layer Processes			HWM-32806 Catchment and Climate Hydrology	SLM-33306 Advanced Hydrological System internship
	AF	YWU-30806 Environmental Data Collection and Analysis	SLM-32806 Ecohydrology OR GRS-20806 Geo-information tools	HWM-33806 Water and Air Flow Numerical Techniques	MAQ-35306 Urban Hydrometeorology	HWM-30306 River Flow and Morphology OR Start thesis OR GRS-20806 Geo-information tools OR WSG-60812 Design of Climate Change Mitigation Strategies OR INF-32306 Software Engineering OR GRS-32306 Advanced Earth Observation	Analysis* OR WSG-60812 Design of Climate Change Mitigation Strategies OR YMC-60809 Academic Consultancy Training Mitodi ACT after (4-wk delay) OR YMC-60809 Academic Consultancy Training

Groundwater Hydrology (thesis SLM or HWM)

		Period 1	Period 2	Period 3	Period 4	Period 5	Peri	od 6
MSc 1	мо	YWU-30306 Interdisciplinary Topics in Earth and Environment	HWM-33306 Coastal Oceanography and Delta Geology OR SLM-30806 Land Degradation and Development OR INF-33806 Big Data OR INF-22306 Programming in Python	HWM-33806 Water and Air Flow Numerical Techniques	SLM-31306 Fundamentals of Land Management OR GRS-33306 Spatial and Temporal Analysis for Earth and Environment OR INF-34306 Data Science Concepts OR	SLM-21306 Subsurface Solute Transport	SLM-33306 Advanced Hydrological System Analysis	Continue thesis and do ACT after thesis / internship
	AF	YWU-30806 Environmental Data Collection and Analysis	SLM-32806 Ecohydrology		WSG-34806 Climate Change Adaptation in Water Management OR AEW-31306 Water Quality	Start thesis		

Environmental Fluid Mechanics in Rivers and Deltas; Riverine Plastic Transport (thesis HWM)

		Period 1	Period 2	Period 3	Period 4	Period 5	Perio	od 6
	мо	YWU-30306 Interdisciplinary Topics in Earth and Environment	HWM-33306 Coastal Oceanography and Delta Geology		MAQ-35306 Urban Hydrometeorology OR GRS-33306	HWM-32806 Catchment and Climate Hydrology	and SLM-33306 afte	and do ACT after thesis / internship OR
MSc 1	AF	YWU-30806 Environmental Data Collection and Analysis	HWM-23806 Geophysical Fluid Mechanics* OR SLM-32806 Ecohydrology OR SGL-30306 Inventory Techniques for Geosciences	HWM-33806 Water and Air Flow Numerical Techniques	Spatial and Temporal Analysis for Earth and Environment OR SLM-31806 Erosion Processes and Modelling OR FTE-35306 Machine learning	HWM-30306 River Flow and Morphology	System Analysis OR YMC-60809 Academic Consultancy	

* Having followed the BSc course Geophysical Fluid Mechanics (or similar) is highly recommended before River Flow and Morphology

Hydrogeology; Vadose Zone Hydrology (thesis HWM or SLM)

		Period 1	Period 2	Period 3	Period 4	Period 5	Period 6	
MSc 1	мо	YWU-30306 Interdisciplinary Topics in Earth and Environment	HWM-33306 Coastal Oceanography and Delta Geology OR INF-33806 Big Data OR INF-22306 Programming in Python	HWM-33806 Water and Air Flow Numerical Techniques	Penou 3	MAQ-35306 Urban Hydrometeorology OR GRS-33306 Spatial and Temporal Analysis for Earth and Environment OR	HWM-32806 Catchment and Climate Hydrology	Continue the and do AC after thesis
	AF	YWU-30806 Environmental Data Collection and Analysis	SLM-32806 Ecohydrology OR SGL-30306 Inventory Techniques for Geosciences OR GRS-20806 Geo-information tools		SLM-31806 Erosion Processes and Modelling OR FTE-35306 Machine learning OR INF-34306 Data Science Concepts OR WSG-34806 Climate Change Adaptation in Water Management	HWM-30306 River Flow and Morphology OR Start thesis OR GRS-20806 Geo-information tools OR INF-32306 Software Engineering OR GRS-32306 Advanced Earth Observation	SLM-33306 internship	

Land Management (thesis SLM)

		Period 1	Period 2 Period 3	Period 4	Period 5	Period 6		
MSc 1	мо	YWU-30306 Interdisciplinary Topics in Earth and Environment	SLM-30806 Land Degradation and Development OR MAT-20306 Advanced Statistics OR INF-33806 Big Data OR INF-22306 Programming in Python OR WSG-35306 Modelling Future Water Stress	HWM-33806 Water and Air Flow Numerical Techniques	MAQ-35306 Urban Hydrometeorology OR SLM-31306 Fundamentals of Land Management OR GRS-33306 Spatial and Temporal Analysis for Earth and Environment OR	SLM-31806 Erosion processes and Modelling	SLM-33306 Continue Advanced and do Hydrological after th System Analysis	o ACT nesis /
	AF	YWU-30806 Environmental Data Collection and Analysis	SLM-32806 Ecohydrology		INF-34306 Data Science Concepts OR WSG-34806 Climate Change Adaptation in Water Management OR AEW-31306 Water Quality	Start thesis		internship

Prerequisites thesis HWM: Two courses in the following set: HWM-32806 Catchment Hydrology, HWM-30306 River Flow and Morphology, SLM-33306 Advanced Hydrological Systems Analysis, HWM-33806 Water and Air Flow Numerical Techniques, HWM-33306 Hydrology and Geology of Deltas, MAQ-35306 Urban Hydrometeorology, HWM-20806 Hydrogeology or HWM-23806 Geophysical Fluid Mechanics. At least one of these courses should be in the set: HWM-32806 Catchment Hydrology, HWM-30306 River Flow and Morphology or SLM-33306 Advanced Hydrological Systems Analysis.

Prerequisites thesis SLM: none (depends on topic) Specialization A: WANT + 2 other specialization courses