

# Curriculum MSc International Land and Water Management 2020 – 2021

## Introduction

The Master International Land and Water Management (MIL) gives you the possibility to select a specialisation and courses which allows you to elaborate your own study programme and focus. This document will explain briefly what you can choose and how to select free choice courses. In the first four weeks of the programme, lectures and an assignment will be given to elaborate your programme. You may contact your study adviser for support and advice.

On this moment, the MIL programme exists out of three compulsory courses (CS) namely:

- **SLM 30306** **Issues and Concepts in International Land and Water Management**
- **WRM 32306** **Research Approaches to Land and Water Management**
- **WRM 60309** **Sustainable Land and Water Management (Spain)**

In the annex the CS courses are presented in **bold**.

Next to this, the programme offers you the possibility to select one of the specialisations namely:

- A. Sustainable Land Management
- B. Water Society and Technology
- C. Adaptive Water Management
- D. Flexible Configurations for Innovative Minds

Each specialisation has two compulsory courses of 6 credits. In the annex they are presented in **green bold italic**. The specialisation is completed when you select at least one restricted optional (RO) course presented in the **colour blue**.

In case you want to shape your programme in a different way, you may select specialisation D 'Flexible configurations for innovative minds'. This option is meant for students who seek new connections within the programme and/or with other disciplines. They combine courses of the existing specialisations with new courses, leading to a thesis research project of their interest and relevant for the MIL programme. To put together a programme in this specialisation, you select two from the **green bold and italic** presented courses and one course presented in the **colour blue** (courses in existing specialisations). Please make an appointment with your study adviser if you want to opt for this specialisation.

## How to select your specialisation?

There are several activities you can undertake to select your specialisation. Some ideas:

- Read the general website of the MIL programme <https://ssc.wur.nl/Handbook/Programme/MIL/Description>
- Check the Handbook on the content of the different courses and the period in which it is given; especially for selecting your specialisation it is important to check if the content of the compulsory course is what you are looking for! In the handbook you select courses per period or per chair group: <https://ssc.wur.nl/Handbook> .
- Check the websites of the three chair groups (SLM, WRM and WSG) that participate in the programme and check the type of research they are involved in. You also can access the website: <https://tip.wur.nl/> . **This point is important as your specialisation prepares you to follow a thesis at the chair group of your specialisation.**
- Follow the lectures given in the first week of the course SLM 30306 Issues and Concepts; in the first weeks the specialisations and the research of the different chair groups will be presented.
- Consult your study adviser.

## Free choice course in period 1

For period 1 in the morning, you may choose one course from the Handbook. Check the first period of the Handbook on topics from chair groups that offer courses in the area of your interest. The letters of the course code refer to the chair group. Often chosen courses are:

ESA 23306 Introduction to Global Change

HWM 20806 Hydrogeology

SLM 20806 Water Quantity and Quality

YRM 20306 Research methods in environmental sciences

SDC 51806 Food Crises; the big picture

SDC 36306 Perspectives and Themes in International Development Studies

PAP 20806 Public Administration and Environmental Law

GRS 10306 Introduction to Geo Information Science

CPT 21304 Introduction to Technology, Agro-ecology and Development

ETE 21306 Water Treatment

ESA: Environmental Systems Analyses

HWM: Hydrology and Quantitative Water Management

SLM: Soil and Land Management

YRM: Research Methodology

SDC: Sociology of Development and Change

PAP: Public Administration and Policy

GRS: Geo-information Science and Remote Sensing

CPT: Communication Philosophy and Technology

ETE: Environmental Technology

## MOS – modular skills training

Last but not least, you will select two so called MOS-modules. Through MOS-modules you will learn specific skills, like negotiation, consultancy, scientific writing and intuitive intelligence. You can find an overview of these short courses in the handbook under YMC-60300:

<https://ssc.wur.nl/Studiegids/Vak/YMC-60300>. After you have chosen two modules from the list, you'll find details of the course by clicking their specific course code, for instance ELS-65600 for the training on Scientific Writing Skills. To register for the training of your liking, you'll use this ELS-65600 code again (not the YMC-60300 code).

## Specialisation A – Sustainable Land Management

		Period 1 September - October	Period 2 November - December	Period 3 January	Period 4 February	Period 5 March – April	Period 6 May - June/July
MIL1	AM	Free choice	<b>SLM 30806</b> <i>Land Degradation &amp; Development</i>	WRM 33806 Gender and Natural Resources  OR PPS 30306 QUALUS  OR Free choice	<b>SLM 31306</b> <i>Fundamentals of Land Management</i>	SLM 31806 Erosion Processes & Modelling  OR SLM 32306 Sustainable Land Management Policies  OR Free choice	<b>WRM 60309</b> Sustainable Land and Water Management (Spain)
	PM	<b>SLM 30306</b> Issues and Concepts in International Land and Water Management	Free choice			<b>WRM 32306</b> Research Approaches to Land and Water Management	
MIL2		<b>SLM 80336</b> Thesis Soil Physics and Land Management				Choose one of the following: SLM 80324 second thesis <u>or</u> SLM 70324 internship <u>or</u> Minor in courses	

## Specialisation B – Water, Society and Technology

		Period 1 September - October	Period 2 November - December	Period 3 January	Period 4 February	Period 5 March – April	Period 6 May - June/July
MIL1	AM	Free choice	<b>WRM 34806</b> <i>Water, Society &amp; Technology - concepts and debates</i>	WRM 33806 Gender and Natural Resources  OR Free choice	WRM 31306 Political Ecology of Water  OR Free choice	WRM 30806 Water Delivery  OR Free choice	<b>WRM 60309</b> Sustainable Land and Water Management (Spain)
	PM	<b>SLM 30306</b> Issues and Concepts in International Land and Water Management	<b>WRM 34306</b> <i>Water System Design for Water Use from Multiple Sources</i>			<b>WRM 32306</b> Research Approaches to Land and Water Management	
MIL2		<b>WRM 80436</b> Thesis Water Resources Management				Choose one of the following: WRM 80424 second thesis <u>or</u> WRM 70424 internship <u>or</u> Minor in courses	

## Specialisation C - Adaptive Water Management

		Period 1 September - October	Period 2 November - December	Period 3 January	Period 4 February	Period 5 March – April	Period 6 May - June/July	
MIL1	AM	Free choice	<p>WSG 35306 Modelling Future Water Stress</p> <p>OR Free choice</p>	<p>ENP 37306 Water Governance, Concepts and Practices</p> <p>OR WRM 33806 Gender and Natural Resources</p>	<p><b>WSG 34806</b> <b>Climate Change</b> <b>Adaptation in</b> <b>Water</b> <b>Management</b></p>	<p>SDC 35306 Natural Hazards and Disasters</p> <p>OR Free choice</p>	<p><b>WRM 60309</b> <b>Sustainable</b> <b>Land and</b> <b>Water</b> <b>Management</b> <b>(Spain)</b></p>	
	PM	<p><b>SLM 30306</b> <b>Issues and Concepts in</b> <b>International Land and</b> <b>Water Management</b></p>	<p><b>WSG 33806 Integrated</b> <b>Water Management</b></p>	<p>OR WSG 35806 Climate smart agriculture</p> <p>OR Free choice</p>		<p><b>WRM 32306</b> <b>Research Approaches to</b> <b>Land and Water</b> <b>Management</b></p>		<p><b>YMC 60300</b> <b>MOS</b> <b>Modular</b> <b>Skills</b> <b>Training</b></p>
MIL2		<p><b>WSG 80436</b> <b>Thesis Water Systems and Global Change</b></p>				<p>Choose one of the following: WSG 80424 second thesis <u>or</u> WSG 70424 internship <u>or</u> Minor in courses</p>		

## Specialisation D – Flexible Configurations for Innovative Minds

		Period 1 September - October	Period 2 November - December	Period 3 January	Period 4 February	Period 5 March – April	Period 6 May - June/July	
MIL1	AM	Free choice	<b>SLM 30806</b> <i>Land Degradation &amp; Development</i>  OR <b>WRM 34806</b> <i>Water, Society &amp; Technology - concepts and debates</i>  OR Free choice	One course in blue from other specialisations   OR Free choice	<b>SLM 31306</b> <i>Fundamentals of Land Management</i>  OR <b>WSG 34806</b> <i>Climate Change Adaptation in Water Management</i>  OR one course in blue from other specialisations  OR Free choice	One course in blue from other specialisations   OR Free choice	<b>WRM 60309</b> <b>Sustainable Land and Water Management (Spain)</b>	
	PM	<b>SLM 30306</b> Issues and Concepts in International Land and Water Management	<b>WRM 34306</b> <i>Water System Design for Water Use from Multiple Sources</i>  OR <b>WSG 33806</b> <i>Integrated Water Management</i>  OR Free choice			<b>WRM 32306</b> Research Approaches to Land and Water Management		<b>YMC 60300 MOS</b> Modular Skills Training
MIL2		<b>MSc Thesis</b> <b>SLM-80336</b> <u>or</u> <b>WRM-80436</b> <u>or</u> <b>WSG-80436</b>				Choose one of the following: XXX 80X24 second thesis <u>or</u> XXX 70X24 internship <u>or</u> Minor in courses		