

Study Programme

Academic year 2021-2022

Programme jointly offered by Ghent University, Aarhus University, Boku University, University of

International Master of Science in Soils and Global Change -- Soil Biogeochemistry and Global Change

Language of instruction: English

Programme version 3

1	General	Courses			30 (credits
Nr	Course		CRDT R	Ref MT1	Session	Study
1	1002773	Soil Chemistry Filip Tack Department of Green Chemistry and Technology	5	1	A:1	150
2	1002657	Soil Physics Wim Cornelis Department of Environment	5	1	A:1	150
3	1002774	Land Information Systems Frieke Vancoillie Department of Environment	5	1	A:1	150
4	1002711	Soil Genesis Peter Finke Department of Environment	5	1	A:1	150
5	1002756	Applied Statistics Aisling Daly Department of Data Analysis and Mathematical Modelling	5	1	A:1	150
6	1002775	Pedology Peter Finke Department of Environment	5	1	A:1	150
2	Courses	s Related to the Main Subject			90 (credits

90 credits

2.1 Module Sustainable Land Management

30 credits

2.1.1 Mandatory courses

Nr Course		CRDT Ref	MT1	Session	Study
1 1002472	Ecosystem Dynamics and their Effect on Greenhouse Gases Sophie Zechmeister-Boltenstern Boku University	3	1	A:2	75
2 1002473	Soil Protection Walter Wenzel Boku University	3	1	A:2	75
3 1002474	Sustainable Land Use in Developing Countries Georg Gratzer Boku University	3	1	A:2	75
4 1002475	Globalisation and Rural Development Martin Kniepert Boku University	3	1	A:2	75
5 1002476	Soil Problems in Aridic and Semi-Aridic Regions Eugenio Diaz-Pines Boku University	3	1	A:2	75
6 1002477	Summer School IMSOGLO Peter Finke Department of Environment	3	1	A:2 ^a	75
7 1002478	Field Work IMSOGLO Peter Finke Department of Environment	3	1	(A:2) ^d	75
2.1.2 Elective courses			12	credits	

Subscribe to 12 credit units from the following list.

Nr Course		CRDT R	ef MT1	Session	Study		
1 1002479	Possible Impacts of Climate Change on Water Resources	3	1	A:2	90		
	Karsten Schulz Roku University						

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2	1002480	Environmental Risk Analysis and Management Hans-Peter Nachtnebel Boku University	3	1	A:2	90
3	1002481	Valuation Methods for Natural Resources Ulrich Morawetz Boku University	3	1	A:2	90
4	1002482	Soil Management in Tropical and Subtropical Developing Regions Eugenio Diaz-Pines Boku University	3	1	A:2	90
5	1002483	Soil Fertility and Soil Ecology in Organic Agriculture Jürgen Kurt Friedel Boku University	3	1	A:2	90
6	1002484	Agroforestry in Mountain Regions Georg Gratzer Boku University	3	1	A:2	90
7	1002485	Field Trip – Rural Water Management Peter Cepuder Boku University	1	1	A:2	30
8	1002486	Forest Soil Biology Andreas Schindlbacher Boku University	3	1	A:2	90
9	1002487	Soil Microbiology Course Katharina Keiblinger Boku University	4	1	A:2	120
2.	2 Module	e Biogeochemical consequences of global change			30	credits
2.2	2.1 Mand	atory courses			18	3 credits
Nr	Course		CRDT	Ref MT1	Session	Study
1	1002488	Landscape Ecology Daniela Sauer University of Göttingen	5	2	A:1	150
2	1002489	Management of Tropical Plant Production Systems Reimund Rötter University of Göttingen	6	2	A:1	180
3	1002492	Plant Nutrition and Plant Health Klaus Dittert University of Göttingen	3	2	A:1	90
4	1002491	Soil Biogeochemistry of Agroecosystems Maxim Dorodnikov University of Göttingen	4	2	A:1	120
2.2	2.2 Electi	ve courses			12	2 credits
Su	bscribe to 12	2 credit units from the following list.				
	Course		CRDT	Ref MT1	Session	Study
1	1002493	Pesticides II Andreas von Tiedemann University of Göttingen	6	2	A:1	180
2	1002494	Soil Biogeochemistry of Agroecosystems (Lab. Practicum) Maxim Dorodnikov University of Göttingen	3	2	A:1	90
3	1002495	Mineral Nutrition of Crops under Different Climate and Environmental Conditions Klaus Dittert University of Göttingen	6	2	A:1	180
4	1002496	Biochemical Processes in the Rhizosphere (renamed from chemical processes in ecology) Evgenia Blagodatskaya University of Göttingen	3	2	A:1	90
5	1002497	Crop Modelling for Risk Management Reimund Rötter University of Göttingen	6	2	A:1	180
6	1002498	Isotopes in Ecosystem Sciences Michaela Dippold University of Göttingen	6	2	A:1	180
7	1002499	Field Course on Man-Environment Interactions Daniela Sauer University of Göttingen	6	2	A:1	180
2.	3 Mastei	dissertation			30	credits
Mr	Course		CRDT	Ref MT1	Session	Study
1	1002500	Master Dissertation Soil Biogeochemistry and Global Change Peter Finke Department of Environment	30	2	A:2	900

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Teaching

When a course is not taught (solely) in the programme's language of instruction, the effectively used languages are indicated in square brackets following the cours name, using the following ISO codes:

bg: Bulgarian de: German es: Spanish ja: Japanese pl: Polish sh: Kroatian/Serbian zh: Chinese cs: Czech el: Greek fr: French nl: Dutch pt: Portuguese sl: Slovene

cs: Czech el: Greek fr: French nl: Dutch pt: Portuguese sl: Slovene da: Danish en: English it: Italian no: Norwegian ru: Russian sv: Swedish

Semester

Semesters are indicated by their number (1 or 2); semester 3 represents the summer period and J indicates a course spanning semesters 1 and 2. When a capital letter precedes a semester number, the course has multiple offerings. The letter indicates the offering concerned.

When a semester is shown in brackets, the course in not offered this year in the specific offering.

The offering frequency and first year of offering are indicated by the following codes:

a: bi-annually c: annually, from 2022-2023 f: annually, from 2023-2024 i: annually, from 2024-2025 b: tri-annually d: bi-annually, from 2022-2023 g: bi-annually, from 2023-2024 j: bi-annually, from 2024-2025 e: tri-annually, from 2022-2023 h: tri-annually, from 2023-2024 k: tri-annually, from 2024-2025

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