

Study Programme

Academic year 2023-2024

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

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

Language of instruction: English

Programme version 5

1	General	Courses			30 (credits
Nr	Course		CRDT	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	Related to the Main Subject			90 (credits

2.1 Module Sustainable Land Management

30 credits

2.1.1 Mandatory courses

Nr Course		CRDT Re	f 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 Elec	tive courses		12 credits			

Subscribe to 12 credit units from the following list.

Ν	r Course		CRDT R	ef MT1	Session	Study
1	1002479	Possible Impacts of Climate Change on Water Resources	3	1	A:2	90
		Huhert Holzmann Roku University				

18-11-2025 05:19 p 1

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 Michael Stockinger 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	2 Module	e Biogeochemical consequences of global change			30	credits
2.2	2.1 Mand	atory courses			18	credits
Nr	Course		CRDT R	ef MT1	Session	Study
1	1002896	Landscape Ecology Daniela Sauer University of Göttingen	6	2	A:1	180
2	1002489	Management of Tropical Plant Production Systems Reimund Rötter University of Göttingen	6	2	A:1	180
3	1002495	Mineral Nutrition of Crops under Different Climate and Environmental Conditions Klaus Dittert University of Göttingen	6	2	A:1	180
2.2	2.2 Electi	ve courses			12	credits
Sub	oscribe to 12	2 credit units from the following list.				
Nr	Course		CRDT R	ef MT1	Session	Study
1	1002493	Pesticides II Andreas von Tiedemann University of Göttingen	6	2	A:1	180
2	1002926	Soil Biogeochemistry of Agricultural and Forest Ecosystems Martin Freudiger University of Göttingen	6	2	A:1	180
3	1002898	Biochemical Processes in the Rhizosphere Evgenia Blagodatskaya University of Göttingen	3	2	A:1	90
4	1002497	Crop Modelling for Risk Management Reimund Rötter University of Göttingen	6	2	A:1	180
5	1002899	Isotopes in Ecosystem Sciences (e-learning course) Michaela Dippold University of Göttingen	6	2	A:1	180
6	1002499	Field Course on Man-Environment Interactions Daniela Sauer University of Göttingen	6	2	(A:1) ^d	180
7	1002900	Ecosystem - Atmosphere Processes Alexander Knohl University of Göttingen	6	2	A:1	180
8	1002492	Plant Nutrition and Plant Health Klaus Dittert University of Göttingen	3	2	A:1	90
2.3	3 Mastei	r dissertation			30	credits
Nr	Course		CRDT R	ef MT1	Session	Study
1	1002500	Master Dissertation Soil Biogeochemistry and Global Change Peter Finke Department of Environment	30	2	A:2	900

18-11-2025 05:19 p 2

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

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

c: annually, from 2024-2025 f: annually, from 2025-2026 i: annually, from 2026-2027 a: bi-annually g: bi-annually, from 2025-2026 j: bi-annually, from 2026-2027 d: bi-annually, from 2024-2025 b: tri-annually e: tri-annually, from 2024-2025 h: tri-annually, from 2025-2026 k: tri-annually, from 2026-2027

18-11-2025 05:19 p 3