GHENT UNIVERSITY

Study Programme

Academic year 2021-2022

Programme jointly offered by Ghent University,Aarhus University,University of Natural Resources and Life Sciences, Vienna,University of Göttingen
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	Ref	MT1	Session	Study
1	I002773	Soil Chemistry Filip Tack -- Department of Green Chemistry and Technology	5		1	A:1	150
2	I002657	Soil Physics Wim Cornelis -- Department of Environment	5		1	A:1	150
3	I002774	Land Information Systems Frieke Vancoillie -- Department of Environment	5		1	A:1	150
4	I002711	Soil Genesis Peter Finke -- Department of Environment	5		1	A:1	150
5	I002756	Applied Statistics Aisling Daly -- Department of Data Analysis and Mathematical Modelling	5		1	A:1	150
6	I002775	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	Ref	MT1	Session	Study
1	I002472	Ecosystem Dynamics and their Effect on Greenhouse Gases University of Natural Resources and Life Sciences, Vienna, Sophie Zechmeister-Boltenstern -- University of Natural Resources and Life Sciences, Vienna	3		1	A:2	75
2	I002473	Soil Protection University of Natural Resources and Life Sciences, Vienna, Walter Wenzel -- University of Natural Resources and Life Sciences, Vienna	3		1	A:2	75
3	I002474	Sustainable Land Use in Developing Countries University of Natural Resources and Life Sciences, Vienna, Georg Gratzer -- University of Natural Resources and Life Sciences, Vienna	3		1	A:2	75
4	I002475	Globalisation and Rural Development University of Natural Resources and Life Sciences, Vienna, Martin Kniepert -- University of Natural Resources and Life Sciences, Vienna	3		1	A:2	75
5	I002476	Soil Problems in Aridic and Semi-Aridic Regions University of Natural Resources and Life Sciences, Vienna, Eugenio Diaz-Pines -- University of Natural Resources and Life Sciences, Vienna	3		1	A:2	75
6	I002477	Summer School IMSOGLO Peter Finke -- Department of Environment	3		1	A:2[a]	75
7	I002478	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	Ref	MT1	Session	Study

1	I002479	Possible Impacts of Climate Change on Water Resources University of Natural Resources and Life Sciences, Vienna, Karsten Schulz -- University of Natural Resources and Life Sciences, Vienna	3	1	A:2	90
2	I002480	Environmental Risk Analysis and Management University of Natural Resources and Life Sciences, Vienna, Hans-Peter Nachtnebel -- University of Natural Resources and Life Sciences, Vienna	3	1	A:2	90
3	I002481	Valuation Methods for Natural Resources University of Natural Resources and Life Sciences, Vienna, Ulrich Morawetz -- University of Natural Resources and Life Sciences, Vienna	3	1	A:2	90
4	I002482	Soil Management in Tropical and Subtropical Developing Regions University of Natural Resources and Life Sciences, Vienna, Eugenio Diaz-Pines -- University of Natural Resources and Life Sciences, Vienna	3	1	A:2	90
5	I002483	Soil Fertility and Soil Ecology in Organic Agriculture University of Natural Resources and Life Sciences, Vienna, Jürgen Kurt Friedel -- University of Natural Resources and Life Sciences, Vienna	3	1	A:2	90
6	I002484	Agroforestry in Mountain Regions University of Natural Resources and Life Sciences, Vienna, Georg Gratzer -- University of Natural Resources and Life Sciences, Vienna	3	1	A:2	90
7	I002485	Field Trip – Rural Water Management University of Natural Resources and Life Sciences, Vienna, Peter Cepuder -- University of Natural Resources and Life Sciences, Vienna	1	1	A:2	30
8	I002486	Forest Soil Biology University of Natural Resources and Life Sciences, Vienna, Andreas Schindlbacher -- University of Natural Resources and Life Sciences, Vienna	3	1	A:2	90
9	I002487	Soil Microbiology Course University of Natural Resources and Life Sciences, Vienna, Katharina Keiblinger -- University of Natural Resources and Life Sciences, Vienna	4	1	A:2	120

2.2 Module Biogeochemical consequences of global change 30 credits

2.2.1 Mandatory courses 18 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	I002488	Landscape Ecology Georg-August-Universität Göttingen, Daniela Sauer -- University of Göttingen	5		2	A:1	150
2	I002489	Management of Tropical Plant Production Systems Georg-August-Universität Göttingen, Reimund Rötter -- University of Göttingen	6		2	A:1	180
3	I002492	Plant Nutrition and Plant Health Georg-August-Universität Göttingen, Klaus Dittert -- University of Göttingen	3		2	A:1	90
4	I002491	Soil Biogeochemistry of Agroecosystems Georg-August-Universität Göttingen, Maxim Dorodnikov -- University of Göttingen	4		2	A:1	120

2.2.2 Elective courses 12 credits

Subscribe to 12 credit units from the following list.

Nr	Course		CRDT	Ref	MT1	Session	Study
1	I002493	Pesticides II Georg-August-Universität Göttingen, Andreas von Tiedemann -- University of Göttingen	6		2	A:1	180
2	I002494	Soil Biogeochemistry of Agroecosystems (Lab. Practicum) Georg-August-Universität Göttingen, Maxim Dorodnikov -- University of Göttingen	3		2	A:1	90
3	I002495	Mineral Nutrition of Crops under Different Climate and Environmental Conditions Georg-August-Universität Göttingen, Klaus Dittert -- University of Göttingen	6		2	A:1	180
4	I002496	Biochemical Processes in the Rhizosphere (renamed from chemical processes in ecology) Georg-August-Universität Göttingen, Evgenia Blagodatskaya -- University of Göttingen	3		2	A:1	90
5	I002497	Crop Modelling for Risk Management Georg-August-Universität Göttingen, Reimund Rötter -- University of Göttingen	6		2	A:1	180
6	I002498	Isotopes in Ecosystem Sciences Georg-August-Universität Göttingen, Michaela Dippold -- University of Göttingen	6		2	A:1	180
7	I002499	Field Course on Man-Environment Interactions Georg-August-Universität Göttingen, Daniela Sauer -- University of Göttingen	6		2	A:1	180

2.3 Master dissertation 30 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	I002500	Master Dissertation Soil Biogeochemistry and Global Change Peter Finke -- Department of Environment	30		2	A:2	900

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	
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