

Programme jointly offered by Ghent University, Aarhus University, Boku University, University of Göttingen  
International Master of Science in Soils and Global Change -- Soil-Plant System Processes and Global Change

Language of instruction: English

Programme version 1

## 1 General Courses 30 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	I002773 Soil Chemistry <i>Filip Tack -- Department of Green Chemistry and Technology</i>	5		1	A:1	150
2	I002657 Soil Physics <i>Wim Cornelis -- Department of Environment</i>	5		1	A:1	150
3	I002774 Land Information Systems <i>Frieke Vancoillie -- Department of Environment</i>	5		1	A:1	150
4	I002756 Applied Statistics <i>Louis Coussement -- Department of Data Analysis and Mathematical Modelling</i>	5		1	A:1	150
5	I002992 Soil Biology <i>Stefaan De Neve -- Department of Environment</i>	4		1	A:1	120
6	I002993 Soil Evolution under Global Change <i>Marijn Bauters -- Department of Environment</i>	6		1	A:1	180

## 2 Courses Related to the Main Subject 90 credits

### 2.1 University of Natural Resources and Life Sciences, Vienna, AUSTRIA 30 credits

#### 2.1.1 Mandatory Courses 18 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	I002472 Ecosystem Dynamics and their Effect on Greenhouse Gases <i>Boku University, Sophie Zechmeister-Boltenstern</i>	3		1	A:2	90
2	I002473 Soil Protection <i>Boku University, Walter Wenzel</i>	3		1	A:2	90
3	I002474 Sustainable Land Use in Developing Countries <i>Boku University, Georg Gratzner</i>	3		1	A:2	90
4	I002476 Soil Problems in Aridic and Semi-Aridic Regions <i>Boku University, Eugenio Diaz-Pines</i>	3		1	A:2	90
5	I002999 Stable Isotopes (C, N, S, O, H) in Soil and Environmental Sciences <i>Boku University, Andrea Watzinger</i>	3		1	A:2	90
6	I002994 Living Lab Summer School in Soils and Global Change <i>Marijn Bauters -- Department of Environment</i>	3		1	A:2	90

#### 2.1.2 Elective Courses 12 credits

Subscribe to 12 credit units from no less than 1 and no more than 2 module(s) from the following list.

##### 2.1.2.1 Main Subject-Specific and Soft Skill Electives

Subscribe to no less than 9 and no more than 12 credit units from the following list.

Nr	Course	CRDT	Ref	MT1	Session	Study
1	I002479 Possible Impacts of Climate Change on Water Resources <i>Boku University, Hubert Holzmann</i>	3		1	A:2	90

2	I002482	Soil Management in Tropical and Subtropical Developing Regions <i>Boku University, Eugenio Diaz-Pines</i>	3	1	A:2	90
3	I002483	Soil Fertility and Soil Ecology in Organic Agriculture <i>Boku University, Johannes Friedl</i>	3	1	A:2	90
4	I002484	Agroforestry in Mountain Regions <i>Boku University, Georg Gratzer</i>	3	1	A:2	90
5	I002486	Forest Soil Biology <i>Boku University, Andreas Schindlbacher</i>	3	1	A:2	90
6	I002487	Soil Microbiology Course <i>Boku University, Katharina Keiblinger</i>	4	1	A:2	120
7	I002475	Globalisation and Rural Development <i>Boku University, Stefan Frank</i>	3	1	A:2	90
8	I003000	Soil Pollution and Remediation <i>Boku University, Olivier Duboc</i>	3	1	A:2	90
9	I003002	In-situ Treatment of Polluted Soils and Sediments: Phytoremediation, In-situ Fixation and Attenuation Techniques <i>Boku University, Markus Puschenreiter</i>	3	1	A:2	90
10	I003003	Soil-Plant Science Workshop: From the Hypothesis to Publication II <i>Boku University, Walter Wenzel</i>	3	1	A:2	90
11	I003004	Internship <i>Boku University</i>	3	1	A:2	90

#### 2.1.2.2 Open Choice

Subscribe to no more than 3 credit units from other master programmes at the University of Natural Resources and Life Sciences, Vienna, relevant for the study program. After approval by the curriculum commission of IMSOGL, distributed over the first standard learning path as follows: no more than 3 credit units in year 1.

### 2.2 University of Göttingen, GERMANY

30 credits

#### 2.2.1 Mandatory Courses

18 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	I002896 Landscape Ecology <i>Georg-August-Universität Göttingen, Daniela Sauer -- University of Göttingen</i>	6		2	A:1	180
2	I002489 Management of Tropical Plant Production Systems <i>Georg-August-Universität Göttingen, Reimund Rötter -- University of Göttingen</i>	6		2	A:1	180
3	I002495 Mineral Nutrition of Crops under Different Climate and Environmental Conditions <i>Georg-August-Universität Göttingen, Klaus Dittert -- University of Göttingen</i>	6		2	A:1	180

#### 2.2.2 Elective Courses

12 credits

Subscribe to 12 credit units from no less than 1 and no more than 2 module(s) from the following list.

##### 2.2.2.1 Main Subject-Specific and Soft Skill Electives

Subscribe to no less than 6 and no more than 12 credit units from the following list.

Nr	Course	CRDT	Ref	MT1	Session	Study
1	I002926 Soil Biogeochemistry of Agricultural and Forest Ecosystems <i>Georg-August-Universität Göttingen, Martin Freudiger -- University of Göttingen</i>	6		2	A:1	180
2	I002497 Crop Modelling for Risk Management <i>Georg-August-Universität Göttingen, Reimund Rötter -- University of Göttingen</i>	6		2	A:1	180
3	I002499 Field Course on Man-Environment Interactions <i>Georg-August-Universität Göttingen, Daniela Sauer -- University of Göttingen</i>	6		2	A:1 <sup>a</sup>	180
4	I002492 Plant Nutrition and Plant Health <i>Georg-August-Universität Göttingen, Klaus Dittert -- University of Göttingen</i>	3		2	A:1	90
5	I003006 Earth Surface Dynamics and Associated Hazards <i>Georg-August-Universität Göttingen, Elisabeth Dietze -- University of Göttingen</i>	6		2	(A:1) <sup>c</sup>	180
6	I003007 Procedures of Resource Analysis and Evaluation <i>Georg-August-Universität Göttingen, Elisabeth Dietze -- University of Göttingen</i>	6		2	(A:1) <sup>c</sup>	180
7	I003008 Science Communication in Biodiversity Research <i>Georg-August-Universität Göttingen, Maria Teresa Aguado -- University of Göttingen</i>	6		2	(A:1) <sup>c</sup>	180
8	I003009 Biological Control and Biodiversity <i>Georg-August-Universität Göttingen, Michael Georg Rostás -- University of Göttingen</i>	6		2	(A:1) <sup>c</sup>	180

### 2.2.2.2 Open Choice

Subscribe to no more than 6 credit units from other master programmes at the University of Göttingen, relevant for the study program. After approval by the curriculum commission of IMSOGL, distributed over the first standard learning path as follows: no more than 6 credit units in year 2.

## 2.3 Master's Dissertation

30 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	I003011 Master's Dissertation Soil-Plant System Processes and Global Change	30		2	(A:2) <sup>c</sup>	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 course name, using the following ISO codes:

bg: Bulgarian	de: German	es: Spanish	ja: Japanese	pl: Polish	sh: Croatian/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 is 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 2025-2026	f: annually, from 2026-2027	i: annually, from 2027-2028
b: tri-annually	d: bi-annually, from 2025-2026	g: bi-annually, from 2026-2027	j: bi-annually, from 2027-2028
	e: tri-annually, from 2025-2026	h: tri-annually, from 2026-2027	k: tri-annually, from 2027-2028