



## Faculty of Sciences

### International Master of Science in Agro- and Environmental Nematology

Language of instruction: English

Programme version 7

1 General Courses						60 credits	
Nr	Course		CRDT	Ref	MT1	Session	Study
1	C002798	Data Mining, Processing and Communication <i>Bart Braeckman -- Department of Biology</i>	3		1	A:1	90
2	C002812	Nematode Morphology <i>Wim Bert -- Department of Biology</i>	5		1	A:1	150
3	C003672	Nematode Systematics and Evolution <i>Wim Bert -- Department of Biology</i>	5		1	A:1	150
4	C003682	Nematological Techniques <i>Wim Bert -- Department of Biology</i>	5		1	A:1	150
5	C003817	Molecular Toolbox <i>Tina Kyndt -- Department of Biotechnology</i>	4		1	A:1	110
6	C003948	General Nematode Biology and Interactions <i>Tom Moens -- Department of Biology</i>	4		1	A:1	120
7	I002756	Applied Statistics <i>Aisling Daly -- Department of Data Analysis and Mathematical Modelling</i>	5		1	A:1	150
8	C004358	Nematodes as Model Organisms <i>Bart Braeckman -- Department of Biology</i>	3		1	A:2	90
9	C003107	Entomopathogenic Nematodes: Taxonomy and Biology <i>Ralf-Udo Ehlers -- Department of Biology</i>	3		1	A:2	90
10	C002801	Entomopathogenic Nematodes: Biotechnology and Use in Biological Control <i>Ralf-Udo Ehlers -- Department of Biology</i>	3		1	A:2	90
11	C003949	Diversity of Plant-Parasitic Nematodes <i>Wim Bert -- Department of Biology</i>	6		1	A:2	180
12	C002808	Management of Plant-Parasitic Nematodes <i>Nicole Viaene -- Department of Biology</i>	4		1	B:2	120
13	C003951	Life Cycle Biology, Physiology and Behaviour of Plant-parasitic Nematodes <i>Wim Wesemael -- Department of Biology</i>	4		1	A:2	120
14	C003952	Tropical Plant Nematology <i>Annemie Elsen -- Department of Biology</i>	3		1	A:2	90
15	C002810	Molecular Aspects of Plant-Nematode Relationships <i>Godelieve Gheysen -- Department of Biotechnology</i>	3		1	A:2	90

2 Elective Courses						30 credits
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Subscribe to 30 credit units from 1 module from the following list. Subject to approval by the faculty.

2.1 UGent Track	30 credits
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Subscribe to 10 credit units from the following list.

Subscribe to 20 credit units from no less than 1 and no more than 2 modules from the following list. Subject to approval by the faculty.

Nr	Course	CRDT	Ref	MT1	Session	Study	
1	C003675	Summer Course: Networking and Seminars <i>Wim Bert -- Department of Biology</i>	4		2	A:J	120
2	C003954	Soil Biodiversity and Nematodes as Bioindicators of Soil Health <i>Ronaldus De Goede -- Department of Biology</i>	6		2	A:1	180

## 2.1.1 Elective Course List

Subscribe to no more than 20 credit units from the following list.

Nr	Course		CRDT	Ref	MT1	Session	Study
1	C002825	Strategies for Research: Project Development and Paper Writing <i>Matthew Shawkey -- Department of Biology</i>	3			A:1	90
2	I002611	Plant Biotechnology <i>Godelieve Gheysen -- Department of Biotechnology</i>	5			A:2	150
3	I002626	Plants, Pathogens and Pests <i>Monica Höfte -- Department of Plants and Crops</i>	5			A:2	150
4	C003097	Plant Biotic Interactions <i>Sofie Goormachtig -- Department of Plant Biotechnology and Bioinformatics</i>	3			A:2	80
5	C003347	Biology of Ageing <i>Bart Braeckman -- Department of Biology</i>	4			A:2	120
6	C003676	Diversity of Aquatic Nematodes <i>Ann Vanreusel -- Department of Biology</i>	6				180
7	I002718	Economics and Management of Natural Resources <i>Stijn Speelman -- Department of Agricultural Economics</i>	4			A:2	120
8	I002606	Environmental Risk Assessment <i>Karel De Schampheleare -- Department of Animal Sciences and Aquatic Ecology</i>	5			A:1	150
9	E078061	Introduction to Environmental Risk Assessment <i>Karel De Schampheleare -- Department of Animal Sciences and Aquatic Ecology</i>	3			A:1	90
10	C003311	Phylogenetics <i>Olivier De Clerck -- Department of Biology</i>	4			A:1	120
11	I002589	Environmental Technology: Soil and Sediment <i>Filip Tack -- Department of Green Chemistry and Technology</i>	3			A:2	90
12	C003482	Professional Internship <i>Wim Bert -- Department of Biology</i>	5			A:J	150
13	C002381	Biotechnology: Biosafety, GMP and Intellectual Property <i>Koen Vanhalst -- Department of Molecular Biology</i>	3			A:1	80
14	I002765	Sustainable Food Systems <i>Marijke D'Haese -- Department of Agricultural Economics</i>	5			A:2	150
15	A003107	Advanced Academic English <i>Geert Jacobs -- Department of Linguistics</i>	3	UKV		A:1, B:2	90
16	C003334	Scientific Communication <i>Danny Haelewaters -- Department of Biology</i>	5			A:1	150
17	I002415	Food Safety and Risk Analysis <i>Liesbeth Jacksens -- Department of Food Technology, Safety and Health</i>	5			A:1	125
18	I002779	Development Economics <i>Marijke D'Haese -- Department of Agricultural Economics</i>	5			A:1	150
19	C002822	Quantitative Plant Nematology <i>Thomas Been -- Department of Biology</i>	3			A:1	90
20	E076431	Introduction to Entrepreneurship <i>Petra Andries -- Department of Marketing, Innovation and Organisation</i>	3			A:1	90
21	E076460	Dare to Venture <i>Johan Verruet -- Department of Marketing, Innovation and Organisation</i>	4			A:2	120
22	E076471	Dare to Start <i>Frank Gielen -- Department of Information Technology</i>	3			A:2	90

## 2.1.2 Elective Courses UGent

Subscribe to no more than 20 credit units chosen from the courses of UGent.

## 2.2 Kenya – International Capacity Building & Sustainability

30 credits

Subscribe to 30 credit units from the following list.

Course 5 in this module needs to be done in a country in the South. Courses 6 and 7 take place at the International Institute of Tropical Agriculture and the International Centre of Insect Physiology and Ecology in Kenya. The 3 courses take place in November-December of the second master year.

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C003675	Summer Course: Networking and Seminars <i>Wim Bert -- Department of Biology</i>	4	2	A:J	120

2	C003954	Soil Biodiversity and Nematodes as Bioindicators of Soil Health <i>Ronaldus De Goede -- Department of Biology</i>	6	2	A:1	180
3	C002822	Quantitative Plant Nematology <i>Thomas Been -- Department of Biology</i>	3	2	A:1	90
4	C002825	Strategies for Research: Project Development and Paper Writing <i>Matthew Shawkey -- Department of Biology</i>	3	2	A:1	90
5	C003482	Professional Internship <i>Wim Bert -- Department of Biology</i>	5	2	A:J	150
6	C004448	Tropical Crop Pests and Diseases & Extension Service Practice <i>Daniel Coyne -- Department of Biology</i>	5	2	A:1	150
7	C004447	Nematology Didactics & Capacity Building <i>Laura Cortada-Gonzalez -- Department of Biology</i>	4	2	A:1	120

### 2.3 International Mobility Track

30 credits

Subscribe to 30 credit units from the following list.

Within semester 1 of year 2 and subject to approval by the faculty: the student selects for 26 credit units courses within one foreign university; for detailed information see [www.imanema.ugent.be](http://www.imanema.ugent.be).

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C003675 Summer Course: Networking and Seminars <i>Wim Bert -- Department of Biology</i>	4		2	A:J	120
2	C003830 Study Programme Abroad	26		2	A:1	728

### 3 Master's Dissertation

30 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C002809 Master's Dissertation <i>N. N.</i>	30		2	A:J	840

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