

Study Programme

Academic year 2023-2024

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 Bart Braeckman Department of Biology	3	1	A:1	90
2	C002812	Nematode Morphology Wim Bert Department of Biology	5	1	A:1	150
3	C003672	Nematode Systematics and Evolution Wim Bert Department of Biology	5	1	A:1	150
4	C003682	Nematological Techniques Wim Bert Department of Biology	5	1	A:1	150
5	C003817	Molecular Toolbox Tina Kyndt Department of Biotechnology	4	1	A:1	110
6	C003948	General Nematode Biology and Interactions Tom Moens Department of Biology	4	1	A:1	120
7	1002756	Applied Statistics Aisling Daly Department of Data Analysis and Mathematical Modelling	5	1	A:1	150
8	C004358	Nematodes as Model Organisms Bart Braeckman Department of Biology	3	1	A:2	90
9	C003107	Entomopathogenic Nematodes: Taxonomy and Biology Ralf-Udo Ehlers Department of Biology	3	1	A:2	90
10	C002801	Entomopathogenic Nematodes: Biotechnology and Use in Biological Control Ralf-Udo Ehlers Department of Biology	3	1	A:2	90
11	C003949	Diversity of Plant-Parasitic Nematodes Wim Bert Department of Biology	6	1	A:2	180
12	C002808	Management of Plant-Parasitic Nematodes Nicole Viaene Department of Biology	4	1	B:2	120
13	C003951	Life Cycle Biology, Physiology and Behaviour of Plant-parasitic Nematodes Wim Wesemael Department of Biology	4	1	A:2	120
14	C003952	Tropical Plant Nematology Annemie Elsen Department of Biology	3	1	A:2	90
15	C002810	Molecular Aspects of Plant-Nematode Relationships Godelieve Gheysen Department of Biotechnology	3	1	A:2	90

2 Elective Courses 30 credits

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

2.1 UGent Track 30 credits

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

Ou	oubscribe to 20 credit units from no less than 1 and no more than 2 modules from the following list. Oubject to approvar by the faculty.						
Nr	Course		CRDT	Ref MT1	Session	Study	
1	C003675	Summer Course: Networking and Seminars Wim Bert Department of Biology	4	2	A:J	120	
2	C003954	Soil Biodiversity and Nematodes as Bioindicators of Soil Health Ronaldus De Goede Department of Biology	6	2	A:1	180	

09-04-2025 09:45 p 1

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

	Course	o more than 20 credit units from the following list.	CRDT	Ref	MT1	Session	Study
1	C002825	Strategies for Research: Project Development and Paper Writing Matthew Shawkey Department of Biology	3			A:1	90
2	1002611	Plant Biotechnology Godelieve Gheysen Department of Biotechnology	5			A:2	150
3	1002626	Plants, Pathogens and Pests Monica Höfte Department of Plants and Crops	5			A:2	150
4	C003097	Plant Biotic Interactions Sofie Goormachtig Department of Plant Biotechnology and Bioinformatics	3			A:2	80
5	C003347	Biology of Ageing Bart Braeckman Department of Biology	4			A:2	120
6	C003676	Diversity of Aquatic Nematodes Ann Vanreusel Department of Biology	6				180
7	1002718	Economics and Management of Natural Resources Stijn Speelman Department of Agricultural Economics	4			A:2	120
8	1002606	Environmental Risk Assessment Karel De Schamphelaere Department of Animal Sciences and Aquatic Ecology	5			A:1	150
9	E078061	Introduction to Environmental Risk Assessment Karel De Schamphelaere Department of Animal Sciences and Aquatic Ecology	3			A:1	90
10	C003311	Phylogenetics Olivier De Clerck Department of Biology	4			A:1	120
11	1002589	Environmental Technology: Soil and Sediment Filip Tack Department of Green Chemistry and Technology	3			A:2	90
12	C003482	Professional Internship Wim Bert Department of Biology	5			A:J	150
13	C002381	Biotechnology: Biosafety, GMP and Intellectual Property Koen Vanhalst Department of Molecular Biology	3			A:1	80
14	1002765	Sustainable Food Systems Marijke D'Haese Department of Agricultural Economics	5			A:2	150
15	A003107	Advanced Academic English Geert Jacobs Department of Linguistics	3	UKV		A:1, B:2	90
16	C003334	Scientific Communication Danny Haelewaters Department of Biology	5			A:1	150
17	1002415	Food Safety and Risk Analysis Liesbeth Jacksens Department of Food Technology, Safety and Health	5			A:1	125
18	1002779	Development Economics Marijke D'Haese Department of Agricultural Economics	5			A:1	150
19	C002822	Quantitative Plant Nematology Thomas Been Department of Biology	3			A:1	90
20	E076431	Introduction to Entrepreneurship Petra Andries Department of Marketing, Innovation and Organisation	3			A:1	90
21	E076460	Dare to Venture Johan Verrue Department of Marketing, Innovation and Organisation	4			A:2	120
22	E076471	Dare to Start Frank Gielen Department of Information Technology	3			A:2	90
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2.1.2 Elective Courses UGent

Subscribe to no more than 20 credit units choosen 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.

N	r Course		CRDT	Ref	MT1	Session	Study
1	C003675	Summer Course: Networking and Seminars	4		2	A:J	120
		Wim Bert Department of Biology					

09-04-2025 09:45 p 2

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

Nr Course	CRDT Re	ef MT1	Session	Study	
1 C003675 Summer Course: Networking and Seminars Wim Bert Department of Biology	4	2	A:J	120	
2 C003830 Study Programme Abroad	26	2	A:1	728	
3 Master's Dissertation 30 cre					
Nr Course	CRDT Re	ef MT1	Session	Study	
1 C002809 Master's Dissertation	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 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 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

09-04-2025 09:45 p 3