

Faculty of Sciences

International Master of Science in Agro- and Environmental Nematology

Language of instruction: English

Programme version 8

## 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> <a href="#">Indicative price: € 0</a>	3		1	A:1	90
2	C002812 Nematode Morphology <i>Wim Bert -- Department of Biology</i> <a href="#">Indicative price: € 113</a>	5		1	A:1	150
3	C003672 Nematode Systematics and Evolution <i>Wim Bert -- Department of Biology</i> <a href="#">Indicative price: € 25</a>	5		1	A:1	150
4	C003682 Nematological Techniques <i>Wim Bert -- Department of Biology</i> <a href="#">Indicative price: € 14</a>	5		1	A:1	150
5	C003817 Molecular Toolbox <i>Godelieve Gheysen -- Department of Biotechnology</i> <a href="#">Indicative price: € 17</a>	4		1	A:1	110
6	C003948 General Nematode Biology and Interactions <i>Tom Moens -- Department of Biology</i> <a href="#">Indicative price: € 15</a>	4		1	A:1	120
7	C004554 Practical Statistics for the Life Sciences <i>Lieven Clement -- Department of Mathematics, Computer Science and Statistics</i> <a href="#">Indicative price: € 0</a>	5		1	A:1	150
8	C004358 Nematodes as Model Organisms <i>Bart Braeckman -- Department of Biology</i> <a href="#">Indicative price: € 22</a>	3		1	A:2	90
9	C003107 Entomopathogenic Nematodes: Taxonomy and Biology <i>Ralf-Udo Ehlers -- Department of Biology</i> <a href="#">Indicative price: € 0</a>	3		1	A:2	90
10	C002801 Entomopathogenic Nematodes: Biotechnology and Use in Biological Control <i>Ralf-Udo Ehlers -- Department of Biology</i> <a href="#">Indicative price: € 5</a>	3		1	A:2	90
11	C003949 Diversity of Plant-Parasitic Nematodes <i>Wim Bert -- Department of Biology</i> <a href="#">Indicative price: € 22</a>	6		1	A:2	180
12	C002808 Management of Plant-Parasitic Nematodes <i>Nicole Viaene -- Department of Biology</i> <a href="#">Indicative price: € 115</a>	4		1	B:2	120
13	C003951 Life Cycle Biology, Physiology and Behaviour of Plant-parasitic Nematodes <i>Wim Wesemael -- Department of Biology</i> <a href="#">Indicative price: € 97</a>	4		1	A:2	120
14	C003952 Tropical Plant Nematology <i>Annemie Elsen -- Department of Biology</i> <a href="#">Indicative price: € 150</a>	3		1	A:2	90

15	C002810	Molecular Aspects of Plant-Nematode Relationships	3	1	A:2	90
		<i>Godelieve Gheysen -- Department of Biotechnology</i>				
		<a href="#">Indicative price: € 0</a>				

## 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 13 credit units from the following list.

Subscribe to 17 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> <a href="#">Indicative price: € 1,000</a>	4		2	A:J	120
2	C003954 Soil Biodiversity and Nematodes as Bioindicators of Soil Health <i>Ronaldus De Goede -- Department of Biology</i> <a href="#">Indicative price: € 20</a>	6		2	A:1	180
3	C002822 Quantitative Plant Nematology <i>Thomas Been -- Department of Biology</i> <a href="#">Indicative price: € 10</a>	3		2	A:1	90

#### 2.1.1 Elective Course List

Subscribe to no more than 17 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> <a href="#">Indicative price: € 0</a>	3			A:1	90
2	I002611 Plant Biotechnology <i>Laurens Pauwels -- Department of Biotechnology</i> <a href="#">Indicative price: unknown</a>	5			A:2	150
3	I002626 Plants, Pathogens and Pests <i>Monica Höfte -- Department of Plants and Crops</i> <a href="#">Indicative price: € 0</a>	5			A:2	150
4	C003097 Plant Biotic Interactions <i>Sofie Goormachtig -- Department of Plant Biotechnology and Bioinformatics</i> <a href="#">Indicative price: € 0</a>	3			A:2	80
5	C003347 Biology of Ageing <i>Bart Braeckman -- Department of Biology</i> <a href="#">Indicative price: € 22</a>	4			A:2	120
6	I002718 Economics and Management of Natural Resources <i>Stijn Speelman -- Department of Agricultural Economics</i> <a href="#">Indicative price: € 68</a>	4			A:2	120
7	I002606 Environmental Risk Assessment <i>Karel De Schampelaere -- Department of Animal Sciences and Aquatic Ecology</i> <a href="#">Indicative price: € 0</a>	5			A:1	150
8	E078061 Introduction to Environmental Risk Assessment <i>Karel De Schampelaere -- Department of Animal Sciences and Aquatic Ecology</i> <a href="#">Indicative price: € 0</a>	3			A:1	90
9	C003311 Phylogenetics <i>Olivier De Clerck -- Department of Biology</i> <a href="#">Indicative price: € 0</a>	4			A:1	120
10	I002589 Environmental Technology: Soil and Sediment <i>Filip Tack -- Department of Green Chemistry and Technology</i> <a href="#">Indicative price: € 35</a>	3			A:2	90
11	C003482 Professional Internship <i>Wim Bert -- Department of Biology</i> <a href="#">Indicative price: € 0</a>	5			A:J	150
12	C002381 Biotechnology: Biosafety, GMP and Intellectual Property <i>Koen Vanhalst -- Department of Molecular Biology</i> <a href="#">Indicative price: € 0</a>	3			A:1	80
13	I002765 Sustainable Food Systems <i>Joost Dessein -- Department of Agricultural Economics</i>	5			A:2	150

		<a href="#">Indicative price: € 0</a>				
14	A003107	Advanced Academic English <i>Geert Jacobs -- Department of Linguistics</i> <a href="#">Indicative price: € 0</a>	3	UKV	A:1, B:2	90
15	C003334	Scientific Communication <i>Danny Haelewaters -- Department of Biology</i> <a href="#">Indicative price: € 0</a>	5		A:1	150
16	I002415	Food Safety and Risk Analysis <i>Liesbeth Jaccsens -- Department of Food Technology, Safety and Health</i> <a href="#">Indicative price: € 0</a>	5		A:1	125
17	I002779	Development Economics <i>Marijke D'Haese -- Department of Agricultural Economics</i> <a href="#">Indicative price: € 75</a>	5		A:1	150
18	E076431	Introduction to Entrepreneurship <i>Petra Andries -- Department of Marketing, Innovation and Organisation</i> <a href="#">Indicative price: € 33</a>	3		A:1	90
19	E076460	Dare to Venture <i>Johan Verrue -- Department of Marketing, Innovation and Organisation</i> <a href="#">Indicative price: unknown</a>	4		A:2	120
20	E076471	Dare to Start <i>Wouter Haerick -- Department of Information Technology</i> <a href="#">Indicative price: unknown</a>	3		A:2	90

### 2.1.2 Elective Courses UGent

Subscribe to no more than 17 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> <a href="#">Indicative price: € 1,000</a>	4		2	A:J	120
2	C003954 Soil Biodiversity and Nematodes as Bioindicators of Soil Health <i>Ronaldus De Goede -- Department of Biology</i> <a href="#">Indicative price: € 20</a>	6		2	A:1	180
3	C002822 Quantitative Plant Nematology <i>Thomas Been -- Department of Biology</i> <a href="#">Indicative price: € 10</a>	3		2	A:1	90
4	C002825 Strategies for Research: Project Development and Paper Writing <i>Matthew Shawkey -- Department of Biology</i> <a href="#">Indicative price: € 0</a>	3		2	A:1	90
5	C003482 Professional Internship <i>Wim Bert -- Department of Biology</i> <a href="#">Indicative price: € 0</a>	5		2	A:J	150
6	C004448 Tropical Crop Pests and Diseases & Extension Service Practice <i>Daniel Coyne -- Department of Biology</i> <a href="#">Indicative price: € 0</a>	5		2	A:1	150
7	C004447 Nematology Didactics & Capacity Building <i>Laura Cortada-Gonzalez -- Department of Biology</i> <a href="#">Indicative price: € 0</a>	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> <a href="#">Indicative price: € 1,000</a>	4		2	A:J	120

### 3 Master's Dissertation 30 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C002809 Master's Dissertation <i>N. N.</i> <a href="#">Indicative price: unknown</a>	30		2	A:J	840

#### Programme related study costs

Type: Laptop

Name: Laptop

Indicative price: € 700

Optional: No

Fulltime standard learning track year: 1

Additional information: <https://www.ugent.be/we/nl/voor-nieuwe-studenten/laptop>

#### 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: 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 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

#### Learning materials

The prices stated are indicative and subject to fluctuations.

The list of learning materials per course unit can be found in the course sheets.