

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

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|----|---------|---|---|---|-----|----|
| 15 | C002810 | Molecular Aspects of Plant-Nematode Relationships <i>Godelieve Gheysen -- Department of Biotechnology</i> Indicative price: € 0 | 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 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> Indicative price: € 1,000 | 4 | | 2 | A:J | 120 |
| 2 | C003954 Soil Biodiversity and Nematodes as Bioindicators of Soil Health <i>Ronaldus De Goede -- Department of Biology</i> Indicative price: € 20 | 6 | | 2 | A:1 | 180 |
| 3 | C002822 Quantitative Plant Nematology <i>Thomas Been -- Department of Biology</i> Indicative price: € 10 | 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> Indicative price: € 0 | 3 | | | A:1 | 90 |
| 2 | I002611 Plant Biotechnology <i>Laurens Pauwels -- Department of Biotechnology</i> Indicative price: unknown | 5 | | | A:2 | 150 |
| 3 | I002626 Plants, Pathogens and Pests <i>Monica Höfte -- Department of Plants and Crops</i> Indicative price: € 0 | 5 | | | A:2 | 150 |
| 4 | C003097 Plant Biotic Interactions <i>Sofie Goormachtig -- Department of Plant Biotechnology and Bioinformatics</i> Indicative price: € 0 | 3 | | | A:2 | 80 |
| 5 | C003347 Biology of Ageing <i>Bart Braeckman -- Department of Biology</i> Indicative price: € 22 | 4 | | | A:2 | 120 |
| 6 | I002718 Economics and Management of Natural Resources <i>Stijn Speelman -- Department of Agricultural Economics</i> Indicative price: € 68 | 4 | | | A:2 | 120 |
| 7 | I002606 Environmental Risk Assessment <i>Karel De Schampelaere -- Department of Animal Sciences and Aquatic Ecology</i> Indicative price: € 0 | 5 | | | A:1 | 150 |
| 8 | E078061 Introduction to Environmental Risk Assessment <i>Karel De Schampelaere -- Department of Animal Sciences and Aquatic Ecology</i> Indicative price: € 0 | 3 | | | A:1 | 90 |
| 9 | C003311 Phylogenetics <i>Olivier De Clerck -- Department of Biology</i> Indicative price: € 0 | 4 | | | A:1 | 120 |
| 10 | I002589 Environmental Technology: Soil and Sediment <i>Filip Tack -- Department of Green Chemistry and Technology</i> Indicative price: € 35 | 3 | | | A:2 | 90 |
| 11 | C003482 Professional Internship <i>Wim Bert -- Department of Biology</i> Indicative price: € 0 | 5 | | | A:J | 150 |
| 12 | C002381 Biotechnology: Biosafety, GMP and Intellectual Property <i>Koen Vanhalst -- Department of Molecular Biology</i> Indicative price: € 0 | 3 | | | A:1 | 80 |
| 13 | I002765 Sustainable Food Systems <i>Joost Dessein -- Department of Agricultural Economics</i> | 5 | | | A:2 | 150 |

| | | | | | | |
|----|---------|--|---|-----|----------|-----|
| | | Indicative price: € 0 | | | | |
| 14 | A003107 | Advanced Academic English <i>Geert Jacobs -- Department of Linguistics</i> Indicative price: € 0 | 3 | UKV | A:1, B:2 | 90 |
| 15 | C003334 | Scientific Communication <i>Danny Haelewaters -- Department of Biology</i> Indicative price: € 0 | 5 | | A:1 | 150 |
| 16 | I002415 | Food Safety and Risk Analysis <i>Liesbeth Jacxsens -- Department of Food Technology, Safety and Health</i> Indicative price: € 0 | 5 | | A:1 | 125 |
| 17 | I002779 | Development Economics <i>Marijke D'Haese -- Department of Agricultural Economics</i> Indicative price: € 75 | 5 | | A:1 | 150 |
| 18 | E076431 | Introduction to Entrepreneurship <i>Petra Andries -- Department of Marketing, Innovation and Organisation</i> Indicative price: € 33 | 3 | | A:1 | 90 |
| 19 | E076460 | Dare to Venture <i>Johan Verrue -- Department of Marketing, Innovation and Organisation</i> Indicative price: unknown | 4 | | A:2 | 120 |
| 20 | E076471 | Dare to Start <i>Wouter Haerick -- Department of Information Technology</i> Indicative price: unknown | 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> Indicative price: € 1,000 | 4 | | 2 | A:J | 120 |
| 2 | C003954 Soil Biodiversity and Nematodes as Bioindicators of Soil Health <i>Ronaldus De Goede -- Department of Biology</i> Indicative price: € 20 | 6 | | 2 | A:1 | 180 |
| 3 | C002822 Quantitative Plant Nematology <i>Thomas Been -- Department of Biology</i> Indicative price: € 10 | 3 | | 2 | A:1 | 90 |
| 4 | C002825 Strategies for Research: Project Development and Paper Writing <i>Matthew Shawkey -- Department of Biology</i> Indicative price: € 0 | 3 | | 2 | A:1 | 90 |
| 5 | C003482 Professional Internship <i>Wim Bert -- Department of Biology</i> Indicative price: € 0 | 5 | | 2 | A:J | 150 |
| 6 | C004448 Tropical Crop Pests and Diseases & Extension Service Practice <i>Daniel Coyne -- Department of Biology</i> Indicative price: € 0 | 5 | | 2 | A:1 | 150 |
| 7 | C004447 Nematology Didactics & Capacity Building <i>Laura Cortada-Gonzalez -- Department of Biology</i> Indicative price: € 0 | 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 | Ref | MT1 | Session | Study |
|----|---|------|-----|-----|---------|-------|
| 1 | C003675 Summer Course: Networking and Seminars <i>Wim Bert -- Department of Biology</i> Indicative price: € 1,000 | 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> Indicative price: unknown | 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: 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 |

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.