

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 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 Godelieve Gheysen -- 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 | C004554 Practical Statistics for the Life Sciences Lieven Clement -- Department of Applied Mathematics and Computer Science | 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 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 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 |

| | | | | | | | |
|---|---------|---|---|--|---|-----|----|
| 3 | C002822 | Quantitative Plant Nematology Thomas Been -- Department of Biology | 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 Matthew Shawkey -- Department of Biology | 3 | | | A:1 | 90 |
| 2 | I002611 | Plant Biotechnology Laurens Pauwels -- Department of Biotechnology | 5 | | | A:2 | 150 |
| 3 | I002626 | 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 | I002718 | Economics and Management of Natural Resources Stijn Speelman -- Department of Agricultural Economics | 4 | | | A:2 | 120 |
| 7 | I002606 | Environmental Risk Assessment Karel De Schamphelaere -- Department of Animal Sciences and Aquatic Ecology | 5 | | | A:1 | 150 |
| 8 | E078061 | Introduction to Environmental Risk Assessment Karel De Schamphelaere -- Department of Animal Sciences and Aquatic Ecology | 3 | | | A:1 | 90 |
| 9 | C003311 | Phylogenetics Olivier De Clerck -- Department of Biology | 4 | | | A:1 | 120 |
| 10 | I002589 | Environmental Technology: Soil and Sediment Filip Tack -- Department of Green Chemistry and Technology | 3 | | | A:2 | 90 |
| 11 | C003482 | Professional Internship Wim Bert -- Department of Biology | 5 | | | A:J | 150 |
| 12 | C002381 | Biotechnology: Biosafety, GMP and Intellectual Property Koen Vanhalst -- Department of Molecular Biology | 3 | | | A:1 | 80 |
| 13 | I002765 | Sustainable Food Systems Marijke D'Haese -- Department of Agricultural Economics | 5 | | | A:2 | 150 |
| 14 | A003107 | Advanced Academic English Geert Jacobs -- Department of Linguistics | 3 | UKV | | A:1, B:2 | 90 |
| 15 | C003334 | Scientific Communication Danny Haelewaters -- Department of Biology | 5 | | | A:1 | 150 |
| 16 | I002415 | Food Safety and Risk Analysis Liesbeth Jacxsens -- Department of Food Technology, Safety and Health | 5 | | | A:1 | 125 |
| 17 | I002779 | Development Economics Marijke D'Haese -- Department of Agricultural Economics | 5 | | | A:1 | 150 |
| 18 | E076431 | Introduction to Entrepreneurship Petra Andries -- Department of Marketing, Innovation and Organisation | 3 | | | A:1 | 90 |
| 19 | E076460 | Dare to Venture Johan Verrue -- Department of Marketing, Innovation and Organisation | 4 | | | A:2 | 120 |
| 20 | E076471 | Dare to Start Frank Gielen -- Department of Information Technology | 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 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 |

| | | | | | | |
|---|---------|--|---|---|-----|-----|
| 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 | Ref | 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 credits

| Nr | Course | CRDT | Ref | MT1 | Session | Study |
|----|--|------|-----|-----|---------|-------|
| 1 | C002809 Master's Dissertation N. N. | 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 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 |