

Faculty of Bioscience Engineering

Master of Science in Bioscience Engineering: Agricultural Sciences

Language of instruction: Dutch

Programme version 14

1 General Courses 62 credits

| Nr | Course | CRDT | Ref | MT1 | Session | Study |
|----|---|------|-----|-----|---------|-------|
| 1 | I003082 Animal Physiology <i>Veerle Fievez -- Department of Animal Sciences and Aquatic Ecology</i> | 4 | | 1 | A:1 | 120 |
| 2 | I002645 Identification and Diagnosis of Plant Diseases, Pests and Weeds <i>Benny De Cauwer -- Department of Plants and Crops</i> | 6 | | 1 | B:1 | 180 |
| 3 | I002647 Plant Husbandry <i>Benny De Cauwer -- Department of Plants and Crops</i> | 5 | | 1 | A:1 | 150 |
| 4 | I002649 Gene Technology and Plant Biotechnology <i>Laurens Pauwels -- Department of Biotechnology</i> | 5 | | 1 | A:1 | 150 |
| 5 | I002651 Monitoring Systems in Agriculture <i>Wouter Maes -- Department of Plants and Crops</i> | 5 | | 1 | A:1 | 150 |
| 6 | I002643 Agricultural Constructions <i>Jan Pieters -- Department of Plants and Crops</i> | 5 | | 1 | A:2 | 150 |
| 7 | I002646 Nutrient Management [en] <i>Stefaan De Neve -- Department of Environment</i> | 5 | | 1 | A:2 | 150 |
| 8 | I001280 Experimental Design [en] <i>Stijn Luca -- Department of Data Analysis and Mathematical Modelling</i> | 3 | | 1 | A:2 | 75 |
| 9 | I003056 Human Nutrition and Health [en] <i>John Van Camp -- Department of Food Technology, Safety and Health</i> | 4 | | 2 | B:1 | 120 |
| 10 | I002650 Agricultural and Rural Policy, EU Perspective [en] <i>Jeroen Buysse -- Department of Agricultural Economics</i> | 5 | | 2 | A:1 | 150 |
| 11 | I003081 Quality Management and Risk Analysis <i>Liesbeth Jaxsens -- Department of Food Technology, Safety and Health</i> | 5 | | 2 | A:2 | 150 |
| 12 | I003083 Animal Nutrition <i>Veerle Fievez -- Department of Animal Sciences and Aquatic Ecology</i> | 5 | | 2 | A:2 | 150 |
| 13 | I003084 Integrated Project Agricultural Sciences <i>Stefaan De Smet -- Department of Animal Sciences and Aquatic Ecology</i> | 5 | | 2 | A:J | 150 |

2 Elective Courses 28 credits

Subscribe to 28 credit units from no less than 1 and no more than 3 module(s) from the following list. Subject to approval by the faculty.

2.1 Master Specific Courses

Subscribe to no more than 28 credit units from the following list.

Study fields (see reference):

- G = Crop Protection
- P = Plant Production
- D = Animal Production
- E = Agricultural Economics

| Nr | Course | CRDT | Ref | MT1 | Session | Study |
|----|--|------|-----|-----|------------------|-------|
| 1 | I002733 Agronomatology <i>Wim Wesemael -- Department of Plants and Crops</i> | 5 | G | | A:1 ^a | 150 |
| 2 | I002734 Crop Protection Chemistry <i>Pieter Spanoghe -- Department of Plants and Crops</i> | 5 | G | | A:2 | 150 |
| 3 | I002735 Biological Control of Crop Pests and Diseases [en] <i>Patrick De Clercq -- Department of Plants and Crops</i> | 5 | G | | A:1 | 150 |

| | | | | | | |
|----|---------|---|---|------|--------------------|-----|
| 4 | I002736 | Applied Entomology <i>Patrick De Clercq -- Department of Plants and Crops</i> | 5 | G | A:2 | 150 |
| 5 | I002737 | Weed Science <i>Benny De Cauwer -- Department of Plants and Crops</i> | 5 | P, G | A:1 | 150 |
| 6 | I002738 | Plant Breeding [en] <i>Steven Maenhout -- Department of Plants and Crops</i> | 5 | P, G | A:1 | 150 |
| 7 | I002739 | Precision Agriculture [en] | 5 | P, G | (A:2) ^d | 150 |
| 8 | I003096 | Ecofysiology <i>Kathy Steppe -- Department of Plants and Crops</i> | 5 | P | A:1 | 150 |
| 9 | I002741 | Plant Production | 4 | P | (A:J) ^d | 120 |
| 10 | I002731 | Tropical Crop Production [en] <i>Eduardo de la Pena -- Department of Plants and Crops</i> | 4 | P | A:2 | 120 |
| 11 | I002992 | Soil Biology [en] <i>Stefaan De Neve -- Department of Environment</i> | 4 | P | A:1 | 120 |
| 12 | I003066 | Agroecology [en] <i>Eduardo de la Pena -- Department of Plants and Crops</i> | 5 | G,P | A:1 | 150 |
| 13 | I002724 | Technology of Animal Products <i>Frank Devlieghere -- Department of Food Technology, Safety and Health</i> | 5 | D | A:2 | 150 |
| 14 | I002758 | Food Marketing and Consumer Behaviour [en] <i>Wim Verbeke -- Department of Agricultural Economics</i> | 5 | E | A:1 | 150 |
| 15 | I002718 | Economics and Management of Natural Resources [en] <i>Stijn Speelman -- Department of Agricultural Economics</i> | 4 | E | A:2 | 120 |
| 16 | I002747 | Sociological Perspectives on Rural Development [en] <i>Joost Dessein -- Department of Agricultural Economics</i> | 5 | E | A:1 | 150 |
| 17 | I002917 | Project Design in Agri-food Systems [en] <i>Hans De Steur -- Department of Agricultural Economics</i> | 5 | E | A:2 | 150 |
| 18 | I003064 | Planning for Multifunctional Landscapes <i>Kris Verheyen -- Department of Environment</i> | 5 | | A:2 | 150 |

2.2 Skills and Attitudes

Subscribe to no more than 10 credit units from the following list, with no more than 10 credit units with reference a.

| Nr | Course | CRDT | Ref | MT1 | Session | Study |
|----|--|------|-----|-----|---------|-------|
| 1 | I002637 Internship [en, nl] <i>Peter Ragaert -- Department of Food Technology, Safety and Health</i> | 5 | a | | A:J | 150 |
| 2 | I002638 International Internship [en, nl] <i>Peter Ragaert -- Department of Food Technology, Safety and Health</i> | 5 | a | | A:J | 150 |
| 3 | I002639 Extended Internship [en, nl] <i>Peter Ragaert -- Department of Food Technology, Safety and Health</i> | 10 | a | | A:J | 300 |
| 4 | I002640 Extended International Internship [en, nl] <i>Peter Ragaert -- Department of Food Technology, Safety and Health</i> | 10 | a | | A:J | 300 |
| 5 | I003067 Bioethics [en] <i>Michiel De Proost -- Department of Philosophy and Moral Sciences</i> | 3 | | | A:1 | 75 |
| 6 | C002668 Scientific Communication in English [en] <i>Geert Jacobs -- Department of Linguistics</i> | 5 | | | A:2 | 150 |
| 7 | I001784 Seminar <i>Mieke Uyttendaele -- Department of Food Technology, Safety and Health</i> | 3 | | | | 75 |

2.3 Open Choice

Subscribe to course units from courses offered at Ghent University and at the alliance partner VUB, including the [Ghent University Elective Courses](#).

A maximum of 2 such courses is allowed.

Maximum 8 credit units language courses are allowed within this master programme.

Subject to approval by the Faculty.

3 Master's Dissertation 30 credits

| Nr | Course | CRDT | Ref | MT1 | Session | Study |
|----|--|------|-----|-----|---------|-------|
| 1 | I001481 Master's Dissertation <i>Stefaan De Smet -- Department of Animal Sciences and Aquatic Ecology</i> | 30 | | 2 | A:J | 900 |

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 2026-2027 | f: annually, from 2027-2028 | i: annually, from 2028-2029 |
| b: tri-annually | d: bi-annually, from 2026-2027 | g: bi-annually, from 2027-2028 | j: bi-annually, from 2028-2029 |
| | e: tri-annually, from 2026-2027 | h: tri-annually, from 2027-2028 | k: tri-annually, from 2028-2029 |