

Faculty of Bioscience Engineering

Master of Science in Bioscience Engineering: Agricultural Sciences

Language of instruction: Dutch

Programme version 12

1 General Courses 62 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	I002643 Agricultural Constructions <i>Jan Pieters -- Department of Plants and Crops</i>	5		1	A:2	150
2	I002644 Animal Physiology <i>Veerle Fievez -- Department of Animal Sciences and Aquatic Ecology</i>	4		1	A:1	120
3	I002645 Identification and Diagnosis of Plant Diseases, Pests and Weeds <i>Monica Höfte -- Department of Plants and Crops</i>	6		1	A:1	180
4	I002646 Nutrient Management [en] <i>Stefaan De Neve -- Department of Environment</i>	5		1	A:2	150
5	I002647 Plant Husbandry <i>Benny De Cauwer -- Department of Plants and Crops</i>	5		1	A:1	150
6	I002648 Human Nutrition <i>John Van Camp -- Department of Food Technology, Safety and Health</i>	4		2	B:1	120
7	I002649 Gene Technology and Plant Biotechnology <i>Godelieve Gheysen -- Department of Biotechnology</i>	5		1	A:1	150
8	I002650 Agricultural and Rural Policy, EU Perspective [en] <i>Jeroen Buysse -- Department of Agricultural Economics</i>	5		2	A:1	150
9	I002651 Monitoring Systems in Agriculture <i>Wouter Maes -- Department of Plants and Crops</i>	5		1	A:1	150
10	I001280 Experimental Design [en] <i>Stijn Luca -- Department of Data Analysis and Mathematical Modelling</i>	3		1	A:2	75
11	I002652 Quality Management and Risk Analysis [en] <i>Liesbeth Jacobs -- Department of Food Technology, Safety and Health</i>	5		2	A:2	150
12	I002653 Animal Nutrition <i>Veerle Fievez -- Department of Animal Sciences and Aquatic Ecology</i>	5		2	A:2	150
13	I002654 Integrated Sustainable Agriculture <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.

Full-time standard learning track:

Students can choose which of the elective course units are taken in the first respectively the second standard learning track year (unless otherwise specified); in combination with the general course units, students take a total of 54 to 66 credits per standard learning track year. The sum of the total number of credits taken up over the 2 standard learning track years must be 120 credits.

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] <i>Abdul Mouazen -- Department of Environment</i>	5	P, G	A:2	150
8	I002627	Plants and Microclimate [en] <i>Kathy Steppe -- Department of Plants and Crops</i>	5	P	A:1	150
9	I002741	Plant Production <i>Emmy Dhooghe -- Department of Plants and Crops</i>	4	P	(A:J) ^d	120
10	I002742	Ethnobotany and New Crop Development	4	P		120
11	I002715	Irrigation and Drainage [en] <i>Wim Cornelis -- Department of Environment</i>	5	P	A:1	150
12	I002743	Monitoring Plant Growth Processes In Vitro and In Vivo <i>Emmy Dhooghe -- Department of Plants and Crops</i>	6	P	A:1	180
13	I002731	Tropical Crop Production [en] <i>Eduardo de la Pena -- Department of Plants and Crops</i>	4	P	A:2	120
14	I002713	Applied Soil Biology [en] <i>Stefaan De Neve -- Department of Environment</i>	4	P	A:1	120
15	I002732	Organic Farming <i>Patrick De Clercq -- Department of Plants and Crops</i>	4	P,G,D,E	A:1	120
16	I002744	Sustainable Animal Husbandry [en] <i>Veerle Fievez -- Department of Animal Sciences and Aquatic Ecology</i>	5	D	(A:2) ^d	150
17	I002724	Technology of Animal Products <i>Frank Devlieghere -- Department of Food Technology, Safety and Health</i>	5	D	A:2	150
18	I002746	Tropical Animal Production [en]	4	D	A:2	120
19	I002935	Toegepaste dierlijke genetica <i>Stefaan De Smet -- Department of Animal Sciences and Aquatic Ecology</i>	5	D	A:1	150
20	I002720	Consumer Behaviour and Marketing of Bio-industrial products <i>Wim Verbeke -- Department of Agricultural Economics</i>	5	E	A:2	150
21	I002718	Economics and Management of Natural Resources [en] <i>Stijn Speelman -- Department of Agricultural Economics</i>	4	E	A:2	120
22	I002747	Sociological Perspectives on Rural Development [en] <i>Joost Dessen -- Department of Agricultural Economics</i>	5	E	A:2	150
23	I002917	Project Design in Agri-food Systems [en] <i>Marijke D'Haese -- Department of Agricultural Economics</i>	5	E	A:2	150
24	I001555	General and Agrarian Law <i>Geert Van Hoorick -- Department of European, Public and International Law</i>	3	E	A:2	90

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>Paul Van der Meeren -- Department of Green Chemistry and Technology</i>	5	a		A:J	150
2	I002638 International Internship [en, nl] <i>Paul Van der Meeren -- Department of Green Chemistry and Technology</i>	5	a		A:J	150
3	I002639 Extended Internship [en, nl] <i>Paul Van der Meeren -- Department of Green Chemistry and Technology</i>	10	a		A:J	300
4	I002640 Extended International Internship [en, nl] <i>Paul Van der Meeren -- Department of Green Chemistry and Technology</i>	10	a		A:J	300
5	I001944 Bio-ethics [en] <i>Farah Focquaert -- 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 [en, nl] <i>Mieke Uyttendaele -- Department of Food Technology, Safety and Health</i>	3	A:J	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 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