

Study Programme

Academic year 2021-2022

Faculty of Bioscience Engineering Master of Science in Bioscience Engineering: Food Science and Nutrition

Language of instruction: Dutch

Programme version 12

1 G	eneral	Courses			68 credits		
	ourse		CRDT	Ref MT1	Session	Study	
1 10		Colloid and Surface Chemistry Paul Van der Meeren Department of Green Chemistry and Technology	5	1	A:2	150	
2 10		Analytical Inorganic Chemistry: Instrumental Techniques Gijs Du Laing Department of Green Chemistry and Technology	3	1	A:1	90	
3 10		Human Nutrition John Van Camp Department of Food Technology, Safety and Health	5	1	A:1	150	
4 10		Process Engineering 2 [en, nl] Paul Van der Meeren Department of Green Chemistry and Technology	5	1	A:1	150	
5 10		Food Technology [en] Koen Dewettinck Department of Food Technology, Safety and Health	5	1	A:1	150	
6 10		Consumer Behaviour and Marketing of Bio-industrial products Wim Verbeke Department of Agricultural Economics	5	1	A:2	150	
7 10		Biochemical and Functional Analysis of Foods Bruno De Meulenaer Department of Food Technology, Safety and Health	5	1	A:1	150	
8 10		Food Regulation [en] Liesbeth Jacxsens Department of Food Technology, Safety and Health	4	1	A:2	120	
9 10		Process Control Kimberly Tumlos Solon Department of Data Analysis and Mathematical Model	5 ling	1	A:2	150	
10 10		Management for Engineers [en, nl] Jeroen Buysse Department of Agricultural Economics	4	2	A:1	120	
11 10		Quality Management and Risk Analysis [en] Liesbeth Jacxsens Department of Food Technology, Safety and Health	5	1	A:2	150	
12 10		Packaging Technology [en] Peter Ragaert Department of Food Technology, Safety and Health	5	1	A:2	150	
13 10		Functional Foods [en] Carl Lachat Department of Food Technology, Safety and Health	5	2	A:2	150	
14 10		Product Innovation in the Food Industry Mieke Uyttendaele Department of Food Technology, Safety and Health	7	2	A:J	210	
2 FI	lective	Courses			22	credits	

Subscribe to 22 credit units from no less than 1 and no more than 5 from the following list. Subject to approval by the faculty. A complete major comprises 15 credit units.

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

2.1.1 Food Technology

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Nr Course		CRDT Ref MT1	Session	Study
1 1002722	Sensory Analysis [en]	5	A:1	150
	Xavier Gellynck Department of Agricultural Economics			

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2	1002723	Formulation and Structuring of Foods [en] Filip Van Bockstaele Department of Food Technology, Safety and Health	5	A:1	150
3	1002724	Technology of Animal Products Frank Devlieghere Department of Food Technology, Safety and Health	5	A:2	150
4	1002725	Technology of Vegetable Products [en] Koen Dewettinck Department of Food Technology, Safety and Health	5	A:2	150
5	1002726	Food Fermentations [en] Katleen Raes Department of Food Technology, Safety and Health	4	A:2	120
2.1	.2 Food	Safety and Health			
	Course		RDT Ref MT1	Session	Study
	1002727	Nutrition Disorders [en] Carl Lachat Department of Food Technology, Safety and Health	5	A:1	150
	1002728	Chemical Food Safety Bruno De Meulenaer Department of Food Technology, Safety and Health	5	A:1 ^a	150
	1002729	Microbiological Food Safety Mieke Uyttendaele Department of Food Technology, Safety and Health	5	A:1 ^a	150
	1002730	Food and Nutrition Epidemiology [en] Carl Lachat Department of Food Technology, Safety and Health	5	A:2	150
,	1002596	Environmental Fate and Management of Pesticides [en] Pieter Spanoghe Department of Plants and Crops	6	A:1	180
2.2	2 Elective	e Courses from Related Fields of Study			
۱r	Course		RDT Ref MT1	Session	Study
	1002612	Industrial Biotechnology [en] Wim Soetaert Department of Biotechnology	5	A:1	150
	1700265	Malting and Brewing Technology Jessika De Clippeleer Department of Biotechnology	4	A:1	120
	1002623	Interphase Processes of Host-associated Micro-organisms [en] Tom Van de Wiele Department of Biotechnology	5	A:1	150
	1002617	Bio-imaging and Image Informatics [en] Andre Skirtach Department of Biotechnology	4	A:1	120
•	1002675	Chemical Structure Determination Christian Stevens Department of Green Chemistry and Technology	4	A:1	120
6	1001280	Experimental Design [en] Stijn Luca Department of Data Analysis and Mathematical Modelling	3	A:2	75
•	1002701	Clean Technology: Theory and Concepts [en] Pieter Nachtergaele Department of Green Chemistry and Technology	3	A:1	90
}	1002719	Modelling and Simulation with Partial Differential Equations in Practice [en]	5	A:1	150
		Ingmar Nopens Department of Data Analysis and Mathematical Modelling			
2.3	3 Entrep	reneurship and Management			
۱r	Course 1001967	Intellectual Property and Valorization [en] Benedikt Sas Department of Food Technology, Safety and Health	RDT Ref MT1 3	Session A:2	Study 90
<u> </u>	1001949	Entrepreneurship Petra Andries Department of Marketing, Innovation and Organisation	3	A:2	75
}	E076460	Dare to Venture [en] Johan Verrue Department of Marketing, Innovation and Organisation	4	A:2	120
	E076471	Dare to Start [en] Frank Gielen Department of Information Technology	3	A:2	90
;	C000833	Project Management Mario Vanhoucke Department of Business Informatics and Operations Manager	4 ment	A:2	120
;	F000710	Supply Chain Management [en] Tarik Aouam Department of Business Informatics and Operations Management	6	A:2	180
2.4	l Skills a	and Attitudes			
		urse units from the following list, with no more than 10 credit units with reference a.			
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1	1002637	Internship [en, nl] Tom Desmet Department of Biotechnology	5	а	A:J	150
2	1002638	International Internship [en, nl] Tom Desmet Department of Biotechnology	5	а	A:J	150
3	1002639	Extended Internship [en, nl] Tom Desmet Department of Biotechnology	10	a	A:J	300
4	1002640	Extended International Internship [en, nl] Tom Desmet Department of Biotechnology	10	а	A:J	300
5	1001944	Bio-ethics [en] Farah Focquaert Department of Philosophy and Moral Sciences	3		A:1	75
6	C002668	Scientific Communication in English [en] Geert Jacobs Department of Linguistics	5		A:2	150
7	1001784	Seminar [en, nl] Mieke Uyttendaele Department of Food Technology, Safety and Health	3		A:J	75

2.5 Open choice

Subscribe to course units from courses offered at Ghent University and at the alliance partner VUB, including the <u>Ghent University Elective Courses</u>.

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 credit					
Nr Course		CRDT R	Ref MT1	Session	Study
1 1001482	Master's Dissertation	30	2	A:J	900
	Liesbeth Jacxsens Department of Food Technology, Safety and Health				

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 cours 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 in 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 2022-2023 f: annually, from 2023-2024 i: annually, from 2024-2025 g: bi-annually, from 2023-2024 j: bi-annually, from 2024-2025 e: tri-annually, from 2022-2023 h: tri-annually, from 2023-2024 k: tri-annually, from 2024-2025

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