

## Study Programme

Academic year 2023-2024

Faculty of Bioscience Engineering
Bachelor of Science in Bioscience Engineering Technology

Language of instruction: Dutch

Programme version 10

1	Genera	l Courses			129	credits
Nr	Course		CRDT Re	ef MT1	Session	Study
1	1700266	Calculus I Jan Baetens Department of Data Analysis and Mathematical Modelling	6	1	A:1	180
2	1700197	Programming I  Jan Verwaeren Department of Data Analysis and Mathematical Modelling	4	1	A:1	120
3	1700198	Mechanics, Oscillations and Waves  Dirk Poelman Department of Solid State Sciences	6	1	A:1	180
4	1700199	General Chemistry I Pieter Vermeir Department of Green Chemistry and Technology	6	1	A:1	180
5	1700200	Zoology: Morphology and Systematics  llias Semmouri Department of Animal Sciences and Aquatic Ecology	4	1	A:1	120
6	1700201	Botany: Morphology and Diversity  Pieter De Frenne Department of Environment	4	1	A:1	120
7	1700267	Linear Algebra and Calculus II  Jan Baetens Department of Data Analysis and Mathematical Modelling	5	1	A:2	150
8	1700203	Programming II  Jan Verwaeren Department of Data Analysis and Mathematical Modelling	3	1	A:2	90
9	1700204	Thermodynamics Frederik Ronsse Department of Green Chemistry and Technology	4	1	A:2	120
10	1700205	General Chemistry II  Pieter Vermeir Department of Green Chemistry and Technology	4	1	A:2	120
11	1700206	Organic Chemistry Sven Mangelinckx Department of Green Chemistry and Technology	5	1	A:2	150
12	1700207	Biochemistry  Jessika De Clippeleer Department of Biotechnology	5	1	A:2	150
13	1700190	Cell Biology Kris Audenaert Department of Plants and Crops	4	1	A:2	120
14	1700208	Differential Equations Michiel Stock Department of Data Analysis and Mathematical Modelling	4	2	A:1	120
15	1700269	Applied Fluid Mechanics Niko Verhoest Department of Environment	5	2	A:1	150
16	1700209	Electricity and Magnetism Toon Verstraelen Department of Physics and Astronomy	4	2	A:1	120
17	1700216	Analytical Chemistry Pieter Vermeir Department of Green Chemistry and Technology	6	2	A:1	180
18	1700272	Probability Theory and Statistics Stijn Luca Department of Data Analysis and Mathematical Modelling	6	2	A:2	180
19	1700268	Optics and Sensors Philippe Smet Department of Solid State Sciences	3	2	A:2	90
20	I700211	Genetics Kris Audenaert Department of Plants and Crops	5	2	A:2	150

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21 1700217	Microbiology Leen De Gelder Department of Biotechnology	5	2	A:2	150	
22 1700218	Ecology Kim Calders Department of Environment	3	2	A:2	90	
23 1700219	Process Technology I Mia Eeckhout Department of Food Technology, Safety and Health	5	3	A:1	150	
24 1700224	Quality Management Systems in the Food Chain  Liesbeth Jacxsens Department of Food Technology, Safety and Health	3	3	A:1	90	
25 1700220	Environmental Sciences Leen De Gelder Department of Biotechnology	4	3	A:1	120	
26 1700221	Entrepreneurship and Business Administration  Joachim Schouteten Department of Agricultural Economics	6	3	A:1	180	
27 1700040	Human Nutrition Kathy Messens Department of Biotechnology	3	3	A:2	90	
28 1700273	Bachelor Project Ingrid De Leyn Department of Food Technology, Safety and Health	7	3	A:J	210	
2 Elective	e Courses					
Subscribe to 1 from the following list.						
2.1 Agricu	Iture			51	credits	
Nr Course		CRDT	Ref MT1	Session	Study	

Nr	Course		CRDT	Ref MT1	Session	Study
1	I700212	Plant Physiology Geert Haesaert Department of Plants and Crops	5	2	A:1	150
2	1700213	Animal Physiology  Jeroen Degroote Department of Animal Sciences and Aquatic Ecology	5	2	A:1	150
3	1700240	Soil Science Steven Sleutel Department of Environment	3	2	A:2	90
4	1700018	Plant Production and Ecophysiology  Geert Haesaert Department of Plants and Crops	4	2	A:2	120
5	1700042	Reproductive Physiology of Animals  Jeroen Degroote Department of Animal Sciences and Aquatic Ecology	4	2	A:2	120
6	1700238	Agrobiotechnology Stefaan Werbrouck Department of Plants and Crops	4	3	A:1	120
7	1700236	Digestive Physiology of Animals  Veerle Fievez Department of Animal Sciences and Aquatic Ecology	5	3	A:1	150
8	I700174	Applied Plant Breeding  Geert Haesaert Department of Plants and Crops	3	3	A:2	90
9	1700020	Crop Protection Geert Haesaert Department of Plants and Crops	6	3	A:2	180
10	1700034	Plant Nutrition and Soil Management Stefaan De Neve Department of Environment	4	3	A:2	120
11	1700026	Livestock Housing and Agricultural Machinery Bart Sonck Department of Animal Sciences and Aquatic Ecology	8	3	A:2	240
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2.2 Horticulture 51 credits

Nı	Course		CRDT Ref	MT1	Session	Study
1	1700212	Plant Physiology Geert Haesaert Department of Plants and Crops	5	2	A:1	150
2	1700213	Animal Physiology Jeroen Degroote Department of Animal Sciences and Aquatic Ecology	5	2	A:1	150
3	1700240	Soil Science Steven Sleutel Department of Environment	3	2	A:2	90
4	I700120	Horticultural Crops Stefaan Werbrouck Department of Plants and Crops	4	2	A:2	120
5	I700121	Controlled Greenhouse Systems Emmy Dhooghe Department of Plants and Crops	4	2	A:2	120
6	1700238	Agrobiotechnology Stefaan Werbrouck Department of Plants and Crops	4	3	A:1	120
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7	1700035	Plant Tissue Culture Stefaan Werbrouck Department of Plants and Crops	4	3	A:1	120
8	1700237	Pomology Filip Debersaques Department of Plants and Crops	5	3	A:1	150
9	1700174	Applied Plant Breeding  Geert Haesaert Department of Plants and Crops	3	3	A:2	90
10	1700020	Crop Protection Geert Haesaert Department of Plants and Crops	6	3	A:2	180
11	1700034	Plant Nutrition and Soil Management Stefaan De Neve Department of Environment	4	3	A:2	120
12	1700239	Glasshouse Vegetable Production  Emmy Dhooghe Department of Plants and Crops	4	3	A:2	120
2.3	3 Food I	ndustry			51	credits
Nr	Course		CRDT Re	ef MT1	Session	Study
1	I700212	Plant Physiology Geert Haesaert Department of Plants and Crops	5	2	A:1	150
2	I700213	Animal Physiology  Jeroen Degroote Department of Animal Sciences and Aquatic Ecology	5	2	A:1	150
3	1700027	Food Chemistry Mia Eeckhout Department of Food Technology, Safety and Health	8	2	A:2	240
4	1700270	Processing Technology of Potatoes, Vegetables, and Fruit Imca Sampers Department of Food Technology, Safety and Health	3	2	A:2	90
5	1700157	Molecular Analysis Techniques Kathy Messens Department of Biotechnology	4	3	A:1	120
6	1700222	Food Microbiology Frank Devlieghere Department of Food Technology, Safety and Health	5	3	A:1	150
7	1700225	Instrumental Analytical Chemistry Pieter Vermeir Department of Green Chemistry and Technology	5	3	A:2	150
8	1700152	Process Technology II  Mia Eeckhout Department of Food Technology, Safety and Health	4	3	A:2	120
9	1700274	Technology and Functionality of Food Components Filip Van Bockstaele Department of Food Technology, Safety and Health	4	3	A:2	120
10	1700226	Food Preservation Technology Tony Ruyssen Department of Food Technology, Safety and Health	4	3	A:2	120
11	1700227	Rheology and Sensory Analysis Filip Van Bockstaele Department of Food Technology, Safety and Health	4	3	A:2	120
2.4	4 Biotec	hnology			51	credits
Nr	Course		CRDT Re	ef MT1	Session	Study
1	1700228	Analysis and Separation of Biomolecules  Jessika De Clippeleer Department of Biotechnology	6	2	A:1	180
2	1700229	Supplementary Biochemistry  David Laureys Department of Biotechnology	5	2	A:2	150
3	1700231	Balances of Biochemical and Chemical Processes  Leen De Gelder Department of Biotechnology	4	2	A:2	120
4	1700230	Biotechnological Project  David Laureys Department of Biotechnology	6	2	A:J	180
5	1700233	Gene Technology [en] Tina Kyndt Department of Biotechnology	4	3	A:1	120
6	1700232	Enzyme Technology  Yves Briers Department of Biotechnology	5	3	A:1	150
7	1700225	Instrumental Analytical Chemistry Pieter Vermeir Department of Green Chemistry and Technology	5	3	A:2	150
8	1700152	Process Technology II  Mia Eeckhout Department of Food Technology, Safety and Health	4	3	A:2	120
9	1700234	Molecular Biotechnology  Yves Briers Department of Biotechnology	4	3	A:2	120

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10 1700154	Industrial Microbiology Leen De Gelder Department of Biotechnology	4	3	A:2	120
11 1700235	Bioinformatics Kris Audenaert Department of Plants and Crops	4	3	A:2	120

## 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 it: Italian ru: Russian da: Danish en: English no: Norwegian 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 2024-2025 f: annually, from 2025-2026 i: annually, from 2026-2027 g: bi-annually, from 2025-2026 g: bi-annually, from 2025-2026 g: bi-annually, from 2025-2026 e: tri-annually, from 2024-2025 h: tri-annually, from 2025-2026 k: tri-annually, from 2026-2027

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