

## Study Programme

Academic year 2022-2023

Faculty of Bioscience Engineering
Bachelor of Science in Bioscience Engineering Technology

Language of instruction: Dutch

Programme version 9

1 Gener	al Courses			129	credits
Nr Course		CRDT R	lef 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 I700199	General Chemistry I  Pieter Vermeir Department of Green Chemistry and Technology	6	1	A:1	180
5 1700200	Zoology: Morphology and Systematics  Joris Michiels 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		5	1	A:2	150
12  700207	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  Bernard De Baets 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		6	2	A:1	180
18  700214		4	2	A:2	120
19 1700268		3	2	A:2	90
20  700211		5	2	A:2	150
21  700217		5	2	A:2	150
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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 1700223	Statistical Data Analysis Stijn Luca Department of Data Analysis and Mathematical Modelling	4	3	A:2	120
28 1700040	Human Nutrition Kathy Messens Department of Biotechnology	3	3	A:2	90
29 1700151	Bachelor Project Ingrid De Leyn Department of Food Technology, Safety and Health	5	3	A:J	150
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## 2 Elective Courses

Subscribe to 1 from the following list.

2.1 51 credits

Nr	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  Dirk Fremaut 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  Dirk Fremaut 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  Dirk Fremaut Department of Animal Sciences and Aquatic Ecology	5	3	A:1	150
8	1700174	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
2 '	2				51	credits

2.2 51 credits

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  Dirk Fremaut 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 1700120	Horticultural Crops Stefaan Werbrouck Department of Plants and Crops	4	2	A:2	120
5 1700121	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				51	credits
Nr	Course		CRDT R	ef MT1	Session	Study
1	1700212	Plant Physiology Geert Haesaert Department of Plants and Crops	5	2	A:1	150
2	1700213	Animal Physiology  Dirk Fremaut 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	I700157	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	I700152	Process Technology II  Mia Eeckhout Department of Food Technology, Safety and Health	4	3	A:2	120
9	1700271	Technology and Functionality of Food Ingredients 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				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	I700152	Process Technology II Mia Eeckhout Department of Food Technology, Safety and Health	4	3	A:2	120
9	1700234	Molecular Biotechnology Philippe De Groote Department of Biotechnology	4	3	A:2	120

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10 1700154 Industrial Microbiology
Inge Van Bogaert -- Department of Biotechnology

11 1700235 Bioinformatics
Willem Desmedt -- Department of Plants and Crops

## 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 es: Spanish sh: Kroatian/Serbian de: German ja: Japanese pl: Polish zh: Chinese nl: Dutch pt: Portuguese cs: Czech el: Greek fr: French sl: Slovene ru: Russian en: English it: Italian no: Norwegian sv: Swedish

## da: Danish 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 2023-2024 f: annually, from 2024-2025 i: annually, from 2025-2026 b: tri-annually d: bi-annually, from 2023-2024 g: bi-annually, from 2024-2025 j: bi-annually, from 2025-2026 h: tri-annually, from 2024-2025 k: tri-annually, from 2025-2026

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