



## Faculty of Bioscience Engineering

### Bachelor of Science in Bioscience Engineering Technology

Language of instruction: Dutch

Programme version 11

1 General Courses						129 credits	
Nr	Course		CRDT	Ref	MT1	Session	Study
1	I700266	Calculus I <i>Jan Baetens -- Department of Data Analysis and Mathematical Modelling</i>	6		1	A:1	180
2	I700197	Programming I <i>Jan Verwaeren -- Department of Data Analysis and Mathematical Modelling</i>	4		1	A:1	120
3	I700198	Mechanics, Oscillations and Waves <i>Dirk Poelman -- Department of Solid State Sciences</i>	6		1	A:1	180
4	I700199	General Chemistry I <i>Pieter Vermeir -- Department of Green Chemistry and Technology</i>	6		1	A:1	180
5	I700200	Zoology: Morphology and Systematics <i>Ilias Semmouri -- Department of Animal Sciences and Aquatic Ecology</i>	4		1	A:1	120
6	I700201	Botany: Morphology and Diversity <i>Pieter De Frenne -- Department of Environment</i>	4		1	A:1	120
7	I700267	Linear Algebra and Calculus II <i>Jan Baetens -- Department of Data Analysis and Mathematical Modelling</i>	5		1	A:2	150
8	I700203	Programming II <i>Jan Verwaeren -- Department of Data Analysis and Mathematical Modelling</i>	3		1	A:2	90
9	I700204	Thermodynamics <i>Frederik Ronse -- Department of Green Chemistry and Technology</i>	4		1	A:2	120
10	I700205	General Chemistry II <i>Pieter Vermeir -- Department of Green Chemistry and Technology</i>	4		1	A:2	120
11	I700206	Organic Chemistry <i>Sven Mangelinckx -- Department of Green Chemistry and Technology</i>	5		1	A:2	150
12	I700207	Biochemistry <i>Jessika De Clippeleer -- Department of Biotechnology</i>	5		1	A:2	150
13	I700190	Cell Biology <i>Kris Audenaert -- Department of Plants and Crops</i>	4		1	A:2	120
14	I700208	Differential Equations <i>Michiel Stock -- Department of Data Analysis and Mathematical Modelling</i>	4		2	A:1	120
15	I700269	Applied Fluid Mechanics <i>Niko Verhoest -- Department of Environment</i>	5		2	A:1	150
16	I700209	Electricity and Magnetism <i>Toon Verstraeten -- Department of Physics and Astronomy</i>	4		2	A:1	120
17	I700216	Analytical Chemistry <i>Pieter Vermeir -- Department of Green Chemistry and Technology</i>	6		2	A:1	180
18	I700272	Probability Theory and Statistics <i>Stijn Luca -- Department of Data Analysis and Mathematical Modelling</i>	6		2	A:2	180
19	I700268	Optics and Sensors <i>Philippe Smet -- Department of Solid State Sciences</i>	3		2	A:2	90
20	I700211	Genetics <i>Kris Audenaert -- Department of Plants and Crops</i>	5		2	A:2	150

21	I700217	Microbiology <i>Leen De Gelder -- Department of Biotechnology</i>	5	2	A:2	150
22	I700218	Ecology <i>Kim Calders -- Department of Environment</i>	3	2	A:2	90
23	I700219	Process Technology I <i>Mia Eeckhout -- Department of Food Technology, Safety and Health</i>	5	3	A:1	150
24	I700224	Quality Management Systems in the Food Chain <i>Liesbeth Jacksens -- Department of Food Technology, Safety and Health</i>	3	3	A:1	90
25	I700220	Environmental Sciences <i>Leen De Gelder -- Department of Biotechnology</i>	4	3	A:1	120
26	I700221	Entrepreneurship and Business Administration <i>Joachim Schouteten -- Department of Agricultural Economics</i>	6	3	A:1	180
27	I700040	Human Nutrition <i>Kathy Messens -- Department of Biotechnology</i>	3	3	A:2	90
28	I700273	Bachelor Project <i>Mia Eeckhout -- Department of Food Technology, Safety and Health</i>	7	3	A:J	210

## 2 Elective Courses

Subscribe to 1 module from the following list.

### 2.1 Biotechnology 51 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	I700228	Analysis and Separation of Biomolecules <i>Jessika De Clippeleer -- Department of Biotechnology</i>	6		2	A:1	180
2	I700229	Supplementary Biochemistry <i>Kathy Messens -- Department of Biotechnology</i>	5		2	A:2	150
3	I700231	Balances of Biochemical and Chemical Processes <i>Leen De Gelder -- Department of Biotechnology</i>	4		2	A:2	120
4	I700230	Biotechnological Project <i>Marjan De Mey -- Department of Biotechnology</i>	6		2	A:J	180
5	I700233	Gene Technology [en] <i>Tina Kyndt -- Department of Biotechnology</i>	4		3	A:1	120
6	I700232	Enzyme Technology <i>Yves Briers -- Department of Biotechnology</i>	5		3	A:1	150
7	I700225	Instrumental Analytical Chemistry <i>Pieter Vermeir -- Department of Green Chemistry and Technology</i>	5		3	A:2	150
8	I700152	Process Technology II <i>Mia Eeckhout -- Department of Food Technology, Safety and Health</i>	4		3	A:2	120
9	I700234	Molecular Biotechnology <i>Yves Briers -- Department of Biotechnology</i>	4		3	A:2	120
10	I700154	Industrial Microbiology <i>Leen De Gelder -- Department of Biotechnology</i>	4		3	A:2	120
11	I700235	Bioinformatics <i>Noémie De Zutter -- Department of Plants and Crops</i>	4		3	A:2	120

### 2.2 Agriculture 51 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	I700212	Plant Physiology <i>Kris Audenaert -- Department of Plants and Crops</i>	5		2	A:1	150
2	I700213	Animal Physiology <i>Thomas Van Hecke -- Department of Animal Sciences and Aquatic Ecology</i>	5		2	A:1	150
3	I700240	Soil Science <i>Steven Sleutel -- Department of Environment</i>	3		2	A:2	90
4	I700018	Plant Production and Ecophysiology <i>Steven Maenhout -- Department of Plants and Crops</i>	4		2	A:2	120
5	I700042	Reproductive Physiology of Animals <i>Thomas Van Hecke -- Department of Animal Sciences and Aquatic Ecology</i>	4		2	A:2	120
6	I700238	Agrobiotechnology <i>Stefaan Werbrouck -- Department of Plants and Crops</i>	4		3	A:1	120

7	I700174	Applied Plant Breeding <i>Steven Maenhout -- Department of Plants and Crops</i>	3	3	A:2	90
8	I700285	Animal Production Systems <i>Jeroen Degroote -- Department of Animal Sciences and Aquatic Ecology</i>	5	3	A:1	150
9	I700279	Identification and Diagnosis of Plant Diseases, Pests and Weeds <i>Kris Audenaert -- Department of Plants and Crops</i>	6	3	A:2	180
10	I700034	Plant Nutrition and Soil Management <i>Stefaan De Neve -- Department of Environment</i>	4	3	A:2	120
11	I700026	Livestock Housing and Agricultural Machinery <i>Bart Sonck -- Department of Animal Sciences and Aquatic Ecology</i>	8	3	A:2	240

### 2.3 Horticulture 51 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	I700212	Plant Physiology <i>Kris Audenaert -- Department of Plants and Crops</i>	5	2		A:1	150
2	I700213	Animal Physiology <i>Thomas Van Hecke -- Department of Animal Sciences and Aquatic Ecology</i>	5	2		A:1	150
3	I700240	Soil Science <i>Steven Sleutel -- Department of Environment</i>	3	2		A:2	90
4	I700120	Horticultural Crops <i>Stefaan Werbrouck -- Department of Plants and Crops</i>	4	2		A:2	120
5	I700121	Controlled Greenhouse Systems <i>Emmy Dhooghe -- Department of Plants and Crops</i>	4	2		A:2	120
6	I700238	Agrobiotechnology <i>Stefaan Werbrouck -- Department of Plants and Crops</i>	4	3		A:1	120
7	I700035	Plant Tissue Culture <i>Stefaan Werbrouck -- Department of Plants and Crops</i>	4	3		A:1	120
8	I700237	Pomology <i>Filip Debersaques -- Department of Plants and Crops</i>	5	3		A:1	150
9	I700174	Applied Plant Breeding <i>Steven Maenhout -- Department of Plants and Crops</i>	3	3		A:2	90
10	I700279	Identification and Diagnosis of Plant Diseases, Pests and Weeds <i>Kris Audenaert -- Department of Plants and Crops</i>	6	3		A:2	180
11	I700034	Plant Nutrition and Soil Management <i>Stefaan De Neve -- Department of Environment</i>	4	3		A:2	120
12	I700239	Glasshouse Vegetable Production <i>Emmy Dhooghe -- Department of Plants and Crops</i>	4	3		A:2	120

### 2.4 Food Industry 51 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	I700212	Plant Physiology <i>Kris Audenaert -- Department of Plants and Crops</i>	5	2		A:1	150
2	I700213	Animal Physiology <i>Thomas Van Hecke -- Department of Animal Sciences and Aquatic Ecology</i>	5	2		A:1	150
3	I700027	Food Chemistry <i>Mia Eeckhout -- Department of Food Technology, Safety and Health</i>	8	2		A:2	240
4	I700270	Processing Technology of Potatoes, Vegetables, and Fruit <i>Imca Sampers -- Department of Food Technology, Safety and Health</i>	3	2		A:2	90
5	I700157	Molecular Analysis Techniques <i>Kathy Messens -- Department of Biotechnology</i>	4	3		A:1	120
6	I700222	Food Microbiology <i>Frank Devlieghere -- Department of Food Technology, Safety and Health</i>	5	3		A:1	150
7	I700225	Instrumental Analytical Chemistry <i>Pieter Vermeir -- Department of Green Chemistry and Technology</i>	5	3		A:2	150
8	I700152	Process Technology II <i>Mia Eeckhout -- Department of Food Technology, Safety and Health</i>	4	3		A:2	120
9	I700274	Technology and Functionality of Food Components <i>Filip Van Bockstaele -- Department of Food Technology, Safety and Health</i>	4	3		A:2	120

10	I700226	Food Preservation Technology <i>Imca Sampers -- Department of Food Technology, Safety and Health</i>	4	3	A:2	120
11	I700227	Rheology and Sensory Analysis <i>Filip Van Bockstaele -- Department of Food Technology, Safety and Health</i>	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 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