



Faculty of Bioscience Engineering

Bachelor of Science in Bioscience Engineering Technology

Language of instruction: Dutch

Programme version 9

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>Joris Michiels -- 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>Bernard De Baets -- 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	I700214 Probability Theory and Statistics <i>Bernard De Baets -- Department of Data Analysis and Mathematical Modelling</i>	4		2	A:2	120
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	I700223	Statistical Data Analysis <i>Stijn Luca -- Department of Data Analysis and Mathematical Modelling</i>	4	3	A:2	120
28	I700040	Human Nutrition <i>Kathy Messens -- Department of Biotechnology</i>	3	3	A:2	90
29	I700151	Bachelor Project <i>Ingrid De Leyn -- Department of Food Technology, Safety and Health</i>	5	3	A:J	150

2 Elective Courses

Subscribe to 1 from the following list.

2.1 51 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	I700212	Plant Physiology <i>Geert Haesaert -- Department of Plants and Crops</i>	5		2	A:1	150
2	I700213	Animal Physiology <i>Dirk Fremaut -- 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>Geert Haesaert -- Department of Plants and Crops</i>	4		2	A:2	120
5	I700042	Reproductive Physiology of Animals <i>Dirk Fremaut -- 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	I700236	Digestive Physiology of Animals <i>Dirk Fremaut -- Department of Animal Sciences and Aquatic Ecology</i>	5		3	A:1	150
8	I700174	Applied Plant Breeding <i>Geert Haesaert -- Department of Plants and Crops</i>	3		3	A:2	90
9	I700020	Crop Protection <i>Geert Haesaert -- 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

2.2 51 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	I700212	Plant Physiology <i>Geert Haesaert -- Department of Plants and Crops</i>	5		2	A:1	150
2	I700213	Animal Physiology <i>Dirk Fremaut -- 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>Geert Haesaert -- Department of Plants and Crops</i>	3	3	A:2	90
10	I700020	Crop Protection <i>Geert Haesaert -- 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

2.3 51 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	I700212	Plant Physiology <i>Geert Haesaert -- Department of Plants and Crops</i>	5	2		A:1	150
2	I700213	Animal Physiology <i>Dirk Fremaut -- 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	I700271	Technology and Functionality of Food Ingredients <i>Filip Van Bockstaele -- Department of Food Technology, Safety and Health</i>	4	3		A:2	120
10	I700226	Food Preservation Technology <i>Tony Ruyssen -- 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

2.4 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>David Laureys -- 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>David Laureys -- 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>Philippe De Groot -- Department of Biotechnology</i>	4	3		A:2	120

10	I700154	Industrial Microbiology <i>Inge Van Bogaert -- Department of Biotechnology</i>	4	3	A:2	120
11	I700235	Bioinformatics <i>Willem Desmedt -- Department of Plants and Crops</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 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
	e: tri-annually, from 2023-2024	h: tri-annually, from 2024-2025	k: tri-annually, from 2025-2026