

Faculty of Bioscience Engineering

Bachelor of Science in Bioscience Engineering Technology

Language of instruction: Dutch

Programme version 8

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>Johan D'heer -- Department of Data Analysis and Mathematical Modelling</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>Johan D'heer -- Department of Data Analysis and Mathematical Modelling</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 Mangelincx -- 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>Elena Torfs -- Department of Data Analysis and Mathematical Modelling</i>	4		2	A:1	120
15	I700209 Electricity and Magnetism <i>Johan D'heer -- Department of Data Analysis and Mathematical Modelling</i>	4		2	A:1	120
16	I700210 Fluidomechanics <i>Johan D'heer -- Department of Data Analysis and Mathematical Modelling</i>	5		2	A:1	150
17	I700211 Genetics <i>Kris Audenaert -- Department of Plants and Crops</i>	5		2	A:2	150
18	I700214 Probability Theory and Statistics <i>Bernard De Baets -- Department of Data Analysis and Mathematical Modelling</i>	4		2	A:2	120
19	I700215 Optics, Quantumphysics, Nuclear Physics <i>Johan D'heer -- Department of Data Analysis and Mathematical Modelling</i>	3		2	A:2	90
20	I700216 Analytical Chemistry <i>Pieter Vermeir -- Department of Green Chemistry and Technology</i>	6		2	A:1	180
21	I700217 Microbiology <i>Leen De Gelder -- Department of Biotechnology</i>	5		2	A:2	150

22	I700218	Ecology <i>Jan Mertens -- 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	I700040	Human Nutrition <i>Kathy Messens -- Department of Biotechnology</i>	3	3	A:2	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	I700224	Quality Management Systems in the Food Chain <i>Liesbeth Jaccxsens -- Department of Food Technology, Safety and Health</i>	3	3	A:1	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>Geert Baert -- 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>Geert Baert -- 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>Geert Baert -- 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>Marie-Christine Van Labeke -- 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>Geert Baert -- Department of Environment</i>	4	3	A:2	120
12	I700239	Glasshouse Vegetable Production <i>Marie-Christine Van Labeke -- 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	I700143 Food Technology I <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	I700153 Food Technology II <i>Ingrid De Leyn -- 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 Groote -- 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>Kris Audenaert -- 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 2022-2023	f: annually, from 2023-2024	i: annually, from 2024-2025
b: tri-annually	d: bi-annually, from 2022-2023	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