GHENT UNIVERSITY

Study Programme

Academic year 2021-2022

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 *Jan Baetens -- Department of Data Analysis and Mathematical Modelling*	6		1	A:1	180
2	I700197	Programming I *Jan Verwaeren -- Department of Data Analysis and Mathematical Modelling*	4		1	A:1	120
3	I700198	Mechanics, Oscillations and Waves *Johan D'heer -- Department of Data Analysis and Mathematical Modelling*	6		1	A:1	180
4	I700199	General Chemistry I *Pieter Vermeir -- Department of Green Chemistry and Technology*	6		1	A:1	180
5	I700200	Zoology: Morphology and Systematics *Joris Michiels -- Department of Animal Sciences and Aquatic Ecology*	4		1	A:1	120
6	I700201	Botany: Morphology and Diversity *Pieter De Frenne -- Department of Environment*	4		1	A:1	120
7	I700267	Linear Algebra and Calculus II *Jan Baetens -- Department of Data Analysis and Mathematical Modelling*	5		1	A:2	150
8	I700203	Programming II *Jan Verwaeren -- Department of Data Analysis and Mathematical Modelling*	3		1	A:2	90
9	I700204	Thermodynamics *Johan D'heer -- Department of Data Analysis and Mathematical Modelling*	4		1	A:2	120
10	I700205	General Chemistry II *Pieter Vermeir -- Department of Green Chemistry and Technology*	4		1	A:2	120
11	I700206	Organic Chemistry *Sven Mangelinckx -- Department of Green Chemistry and Technology*	5		1	A:2	150
12	I700207	Biochemistry *Jessika De Clippeleer -- Department of Biotechnology*	5		1	A:2	150
13	I700190	Cell Biology *Kris Audenaert -- Department of Plants and Crops*	4		1	A:2	120
14	I700208	Differential Equations *Elena Torfs -- Department of Data Analysis and Mathematical Modelling*	4		2	A:1	120
15	I700209	Electricity and Magnetism *Johan D'heer -- Department of Data Analysis and Mathematical Modelling*	4		2	A:1	120
16	I700210	Fluidomechanics *Johan D'heer -- Department of Data Analysis and Mathematical Modelling*	5		2	A:1	150
17	I700211	Genetics *Kris Audenaert -- Department of Plants and Crops*	5		2	A:2	150
18	I700214	Probability Theory and Statistics *Bernard De Baets -- Department of Data Analysis and Mathematical Modelling*	4		2	A:2	120
19	I700215	Optics, Quantumphysics, Nuclear Physics *Johan D'heer -- Department of Data Analysis and Mathematical Modelling*	3		2	A:2	90
20	I700216	Analytical Chemistry *Pieter Vermeir -- Department of Green Chemistry and Technology*	6		2	A:1	180
21	I700217	Microbiology *Leen De Gelder -- Department of Biotechnology*	5		2	A:2	150

22	I700218	Ecology *Jan Mertens -- Department of Environment*	3		2	A:2	90
23	I700219	Process Technology I *Mia Eeckhout -- Department of Food Technology, Safety and Health*	5		3	A:1	150
24	I700040	Human Nutrition *Kathy Messens -- Department of Biotechnology*	3		3	A:2	90
25	I700220	Environmental Sciences *Leen De Gelder -- Department of Biotechnology*	4		3	A:1	120
26	I700221	Entrepreneurship and Business Administration *Joachim Schouteten -- Department of Agricultural Economics*	6		3	A:1	180
27	I700223	Statistical Data Analysis *Stijn Luca -- Department of Data Analysis and Mathematical Modelling*	4		3	A:2	120
28	I700224	Quality Management Systems in the Food Chain *Liesbeth Jacxsens -- Department of Food Technology, Safety and Health*	3		3	A:1	90
29	I700151	Bachelor Project *Ingrid De Leyn -- Department of Food Technology, Safety and Health*	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 *Geert Haesaert -- Department of Plants and Crops*	5		2	A:1	150
2	I700213	Animal Physiology *Dirk Fremaut -- Department of Animal Sciences and Aquatic Ecology*	5		2	A:1	150
3	I700240	Soil Science *Geert Baert -- Department of Environment*	3		2	A:2	90
4	I700018	Plant Production and Ecophysiology *Geert Haesaert -- Department of Plants and Crops*	4		2	A:2	120
5	I700042	Reproductive Physiology of Animals *Dirk Fremaut -- Department of Animal Sciences and Aquatic Ecology*	4		2	A:2	120
6	I700238	Agrobiotechnology *Stefaan Werbrouck -- Department of Plants and Crops*	4		3	A:1	120
7	I700236	Digestive Physiology of Animals *Dirk Fremaut -- 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	I700020	Crop Protection *Geert Haesaert -- Department of Plants and Crops*	6		3	A:2	180
10	I700034	Plant Nutrition and Soil Management *Geert Baert -- Department of Environment*	4		3	A:2	120
11	I700026	Livestock Housing and Agricultural Machinery *Bart Sonck -- Department of Animal Sciences and Aquatic Ecology*	8		3	A:2	240

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	I700213	Animal Physiology *Dirk Fremaut -- Department of Animal Sciences and Aquatic Ecology*	5		2	A:1	150
3	I700240	Soil Science *Geert Baert -- 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 *Marie-Christine Van Labeke -- Department of Plants and Crops*	4		2	A:2	120
6	I700238	Agrobiotechnology *Stefaan Werbrouck -- Department of Plants and Crops*	4		3	A:1	120

7	I700035	Plant Tissue Culture *Stefaan Werbrouck -- Department of Plants and Crops*	4	3	A:1	120
8	I700237	Pomology *Filip Debersaques -- Department of Plants and Crops*	5	3	A:1	150
9	I700174	Applied Plant Breeding *Geert Haesaert -- Department of Plants and Crops*	3	3	A:2	90
10	I700020	Crop Protection *Geert Haesaert -- Department of Plants and Crops*	6	3	A:2	180
11	I700034	Plant Nutrition and Soil Management *Geert Baert -- Department of Environment*	4	3	A:2	120
12	I700239	Glasshouse Vegetable Production *Marie-Christine Van Labeke -- Department of Plants and Crops*	4	3	A:2	120

2.3 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	I700213	Animal Physiology *Dirk Fremaut -- Department of Animal Sciences and Aquatic Ecology*	5		2	A:1	150
3	I700027	Food Chemistry *Mia Eeckhout -- Department of Food Technology, Safety and Health*	8		2	A:2	240
4	I700143	Food Technology I *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	I700222	Food Microbiology *Frank Devlieghere -- Department of Food Technology, Safety and Health*	5		3	A:1	150
7	I700225	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	I700153	Food Technology II *Ingrid De Leyn -- Department of Food Technology, Safety and Health*	4		3	A:2	120
10	I700226	Food Preservation Technology *Tony Ruyssen -- Department of Food Technology, Safety and Health*	4		3	A:2	120
11	I700227	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	Ref	MT1	Session	Study
1	I700228	Analysis and Separation of Biomolecules *Jessika De Clippeleer -- Department of Biotechnology*	6		2	A:1	180
2	I700229	Supplementary Biochemistry *David Laureys -- Department of Biotechnology*	5		2	A:2	150
3	I700231	Balances of Biochemical and Chemical Processes *Leen De Gelder -- Department of Biotechnology*	4		2	A:2	120
4	I700230	Biotechnological Project *David Laureys -- Department of Biotechnology*	6		2	A:J	180
5	I700233	Gene Technology [en] *Tina Kyndt -- Department of Biotechnology*	4		3	A:1	120
6	I700232	Enzyme Technology *Yves Briers -- Department of Biotechnology*	5		3	A:1	150
7	I700225	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	I700234	Molecular Biotechnology *Philippe De Groote -- Department of Biotechnology*	4		3	A:2	120

10	I700154	Industrial Microbiology *Inge Van Bogaert -- Department of Biotechnology*	4	3	A:2	120
11	I700235	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	
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 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 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