Study Programme

Academic year 2021-2022

GHENT UNIVERSITY

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

Nr	Course		CRDT	Ref	MT1	Session	Study
22	I700218	Ecology	3	2		A:2	90
		Jan Mertens -- Department of Environment					
23	I700219	Process Technology I	5	3		A:1	150
		Mia Eeckhout -- Department of Food Technology, Safety and Health					
24	I700040	Human Nutrition	3	3		A:2	90
		Kathy Messens -- Department of Biotechnology					
25	I700220	Environmental Sciences	4	3		A:1	120
		Leen De Gelder -- Department of Biotechnology					
26	I700221	Entrepreneurship and Business Administration	6	3		A:1	180
		Joachim Schouteten -- Department of Agricultural Economics					
27	I700223	Statistical Data Analysis	4	3		A:2	120
		Stijn Luca -- Department of Data Analysis and Mathematical Modelling					
28	I700224	Quality Management Systems in the Food Chain	3	3		A:1	90
		Liesbeth Jacxsens -- Department of Food Technology, Safety and Health					
29	I700151	Bachelor Project	5	3		A:J	150
		Ingrid De Leyn -- Department of Food Technology, Safety and Health					

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	5	2		A:1	150
		Geert Haesaert -- Department of Plants and Crops					
2	I700213	Animal Physiology	5	2		A:1	150
		Dirk Fremaut -- Department of Animal Sciences and Aquatic Ecology					
3	I700240	Soil Science	3	2		A:2	90
		Geert Baert -- Department of Environment					
4	I700018	Plant Production and Ecophysiology	4	2		A:2	120
		Geert Haesaert -- Department of Plants and Crops					
5	I700042	Reproductive Physiology of Animals	4	2		A:2	120
		Dirk Fremaut -- Department of Animal Sciences and Aquatic Ecology					
6	I700238	Agrobiotechnology	4	3		A:1	120
		Stefaan Werbrouck -- Department of Plants and Crops					
7	I700236	Digestive Physiology of Animals	5	3		A:1	150
		Dirk Fremaut -- Department of Animal Sciences and Aquatic Ecology					
8	I700174	Applied Plant Breeding	3	3		A:2	90
		Geert Haesaert -- Department of Plants and Crops					
9	I700020	Crop Protection	6	3		A:2	180
		Geert Haesaert -- Department of Plants and Crops					
10	I700034	Plant Nutrition and Soil Management	4	3		A:2	120
		Geert Baert -- Department of Environment					
11	I700026	Livestock Housing and Agricultural Machinery	8	3		A:2	240
		Bart Sonck -- Department of Animal Sciences and Aquatic Ecology					

2.2   51 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	I700212	Plant Physiology	5	2		A:1	150
		Geert Haesaert -- Department of Plants and Crops					
2	I700213	Animal Physiology	5	2		A:1	150
		Dirk Fremaut -- Department of Animal Sciences and Aquatic Ecology					
3	I700240	Soil Science	3	2		A:2	90
		Geert Baert -- Department of Environment					
4	I700120	Horticultural Crops	4	2		A:2	120
		Stefaan Werbrouck -- Department of Plants and Crops					
5	I700121	Controlled Greenhouse Systems	4	2		A:2	120
		Marie-Christine Van Labeke -- Department of Plants and Crops					
6	I700238	Agrobiotechnology	4	3		A:1	120
		Stefaan Werbrouck -- Department of Plants and Crops					

Nr	Course		CRDT	Ref	MT1	Session	Study
7	I700035	Plant Tissue Culture	4		3	A:1	120
		Stefaan Werbrouck -- Department of Plants and Crops					
8	I700237	Pomology	5		3	A:1	150
		Filip Debersaques -- Department of Plants and Crops					
9	I700174	Applied Plant Breeding	3		3	A:2	90
		Geert Haesaert -- Department of Plants and Crops					
10	I700020	Crop Protection	6		3	A:2	180
		Geert Haesaert -- Department of Plants and Crops					
11	I700034	Plant Nutrition and Soil Management	4		3	A:2	120
		Geert Baert -- Department of Environment					
12	I700239	Glasshouse Vegetable Production	4		3	A:2	120
		Marie-Christine Van Labeke -- Department of Plants and Crops					

2.3   51 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	I700212	Plant Physiology	5	2		A:1	150
		Geert Haesaert -- Department of Plants and Crops					
2	I700213	Animal Physiology	5	2		A:1	150
		Dirk Fremaut -- Department of Animal Sciences and Aquatic Ecology					
3	I700027	Food Chemistry	8	2		A:2	240
		Mia Eeckhout -- Department of Food Technology, Safety and Health					
4	I700143	Food Technology I	3	2		A:2	90
		Imca Sampers -- Department of Food Technology, Safety and Health					
5	I700157	Molecular Analysis Techniques	4		3	A:1	120
		Kathy Messens -- Department of Biotechnology					
6	I700222	Food Microbiology	5		3	A:1	150
		Frank Devlieghere -- Department of Food Technology, Safety and Health					
7	I700225	Instrumental Analytical Chemistry	5		3	A:2	150
		Pieter Vermeir -- Department of Green Chemistry and Technology					
8	I700152	Process Technology II	4		3	A:2	120
		Mia Eeckhout -- Department of Food Technology, Safety and Health					
9	I700153	Food Technology II	4		3	A:2	120
		Ingrid De Leyn -- Department of Food Technology, Safety and Health					
10	I700226	Food Preservation Technology	4		3	A:2	120
		Tony Ruyssen -- Department of Food Technology, Safety and Health					
11	I700227	Rheology and Sensory Analysis	4		3	A:2	120
		Filip Van Bockstaele -- Department of Food Technology, Safety and Health					

2.4   51 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	I700228	Analysis and Separation of Biomolecules	6	2		A:1	180
		Jessika De Clippeleer -- Department of Biotechnology					
2	I700229	Supplementary Biochemistry	5	2		A:2	150
		David Laureys -- Department of Biotechnology					
3	I700231	Balances of Biochemical and Chemical Processes	4	2		A:2	120
		Leen De Gelder -- Department of Biotechnology					
4	I700230	Biotechnological Project	6	2		A:J	180
		David Laureys -- Department of Biotechnology					
5	I700233	Gene Technology [en]	4		3	A:1	120
		Tina Kyndt -- Department of Biotechnology					
6	I700232	Enzyme Technology	5		3	A:1	150
		Yves Briers -- Department of Biotechnology					
7	I700225	Instrumental Analytical Chemistry	5		3	A:2	150
		Pieter Vermeir -- Department of Green Chemistry and Technology					
8	I700152	Process Technology II	4		3	A:2	120
		Mia Eeckhout -- Department of Food Technology, Safety and Health					
9	I700234	Molecular Biotechnology	4		3	A:2	120
		Philippe De Groote -- Department of Biotechnology					

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