GHENT UNIVERSITY

Study Programme

Academic year 2021-2022

Faculty of Bioscience Engineering

Bachelor of Science in Bioindustrial Sciences

Campus: Courtray

Language of instruction: Dutch

Programme version 5

1 General Courses — 170 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	I610018	Mathematics I *Jan Baetens -- Department of Data Analysis and Mathematical Modelling*	6		1	A:1	180
2	E610013	Mechanics *Michael Monte -- Department of Electromechanical, Systems and Metal Engineering*	6		1	A:J	180
3	E610019	Materials *Geert De Clercq -- Department of Materials, Textiles and Chemical Engineering*	3		1	A:1	90
4	E610014	Electricity *Kurt Stockman -- Department of Electromechanical, Systems and Metal Engineering*	6		1	A:1	180
5	I610008	General Chemistry *Christophe Wille -- Department of Food Technology, Safety and Health*	6		1	A:1	180
6	I610003	Biology of Micro-Organisms *Christophe Wille -- Department of Food Technology, Safety and Health*	6		1	A:1	180
7	E610016	Physics *Michael Monte -- Department of Electromechanical, Systems and Metal Engineering*	5		1	B:2	150
8	E610055	Electronics *Sam Lemey -- Department of Information Technology*	3		1	A:2	90
9	I610015	Introduction to the Circular Economy *Diederik Rousseau -- Department of Green Chemistry and Technology*	3		1	A:2	90
10	I610016	Organic Chemistry I *Christophe Wille -- Department of Food Technology, Safety and Health*	4		1	A:2	120
11	I610014	Analytical Chemistry *Ann Dumoulin -- Department of Green Chemistry and Technology*	3		1	A:2	90
12	I610017	Microbial System and Virology *Christophe Wille -- Department of Food Technology, Safety and Health*	3		1	A:2	90
13	I610019	Mathematics II *Jan Baetens -- Department of Data Analysis and Mathematical Modelling*	6		1	A:2	180
14	I610012	Biochemistry *Christophe Wille -- Department of Food Technology, Safety and Health*	6		2	B:1	180
15	I620015	Statistical Data Analysis and Experimental Design *Stijn Van Hulle -- Department of Green Chemistry and Technology*	6		2	A:1	180
16	I620017	Spectroscopic Analysis *Ann Dumoulin -- Department of Green Chemistry and Technology*	3		2	A:1	90
17	I620018	Physico-Chemistry *Stijn Van Hulle -- Department of Green Chemistry and Technology*	5		2	A:2	150
18	I620019	Organic Chemistry II *Christophe Wille -- Department of Food Technology, Safety and Health*	4		2	A:1	120
19	I620020	Environmental Microbiology *Diederik Rousseau -- Department of Green Chemistry and Technology*	3		2	A:2	90
20	I630019	Biometrics *Stijn Luca -- Department of Data Analysis and Mathematical Modelling*	3		2	A:2	90
21	I620022	null *Stefaan Werbrouck -- Department of Plants and Crops*	3		2	A:2	90

22	I620023	Sensors and Data Acquisition *Sergei Gusev -- Department of Green Chemistry and Technology*	5		2	B:1	150
23	I620024	Chromatographic Techniques *Ann Dumoulin -- Department of Green Chemistry and Technology*	5		2	A:2	150
24	I620025	Thermal and Mechanical Engineering *Joël Hogie -- Department of Green Chemistry and Technology*	5		2	A:2	150
25	I620026	Quality Assurance in the (Food) Industry *Imca Sampers -- Department of Food Technology, Safety and Health*	6		2	A:2	180
26	E620032	Applied Fluid Mechanics and Thermodynamics *Martijn van den Broek -- Department of Electronics and Information Systems*	6		2	A:1	180
27	I630045	Chemical Engineering *Steven De Meester -- Department of Green Chemistry and Technology*	7		3	A:1	180
28	I630046	Environmental Technology I *Stijn Van Hulle -- Department of Green Chemistry and Technology*	6		3	A:1	180
29	I630047	Biocatalysis *Tom Desmet -- Department of Biotechnology*	3		3	A:1	90
30	E620702	Business Administration *Ludo Poelaert -- Department of Industrial Systems Engineering and Product Design*	3		3	A:2	90
31	I630057	Process Control *Sergei Gusev -- Department of Green Chemistry and Technology*	6		3	A:2	180
32	I630051	Biochemical Engineering *Katleen Raes -- Department of Food Technology, Safety and Health*	6		3	A:2	180
33	I630058	Bioprocess Simulations and Design Tools *Stijn Van Hulle -- Department of Green Chemistry and Technology*	5		3	A:1	150
34	I630053	Sustainable Energy and Rational Use of Energy *Jos Knockaert -- Department of Electromechanical, Systems and Metal Engineering*	4		3	A:2	120
35	I630056	Bachelor Thesis *Diederik Rousseau -- Department of Green Chemistry and Technology*	6		3	B:J	180
36	I630055	Risk assesment of chemicals *Karel De Schamphelaere -- Department of Animal Sciences and Aquatic Ecology*	4		3	A:2	120

2 Minors — 10 credits

Subscribe to 1 minor from the following list. Subject to approval by the faculty.

2.1 Minor Food Processing Technology — 10 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	I630043	Chemical Conversions of Biological Raw Material *Katleen Raes -- Department of Food Technology, Safety and Health*	5		3	A:1	150
2	I630059	Hygienic Design and Cleaning & Disinfection *Imca Sampers -- Department of Food Technology, Safety and Health*	5		3	A:2	150

2.2 Minor Green Technology — 10 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	I630044	Environmental Technology II *Ann Dumoulin -- Department of Green Chemistry and Technology*	5		3	A:1	150
2	I630050	Sustainable Materials *Ann Dumoulin -- Department of Green Chemistry and Technology*	5		3	A:2	150

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