GHENT UNIVERSITY

Study Programme

Academic year 2023-2024

Faculty of Bioscience Engineering

Linking Course Master of Science in Biochemical Engineering Technology

Language of instruction: Dutch

Programme version 11

1 General Courses — 54 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	I700269	Applied Fluid Mechanics *Niko Verhoest -- Department of Environment*	5		1	A:1	150
3	I700209	Electricity and Magnetism *Toon Verstraelen -- Department of Physics and Astronomy*	4		1	A:1	120
4	I700232	Enzyme Technology *Yves Briers -- Department of Biotechnology*	5		1	A:1	150
5	I700267	Linear Algebra and Calculus II *Jan Baetens -- Department of Data Analysis and Mathematical Modelling*	5		1	A:2	150
6	I700204	Thermodynamics *Frederik Ronsse -- Department of Green Chemistry and Technology*	4		1	A:2	120
7	I700272	Probability Theory and Statistics *Stijn Luca -- Department of Data Analysis and Mathematical Modelling*	6		1	A:2	180
8	I700268	Optics and Sensors *Philippe Smet -- Department of Solid State Sciences*	3		1	A:2	90
9	I700152	Process Technology II *Mia Eeckhout -- Department of Food Technology, Safety and Health*	4		1	A:2	120
10	I700154	Industrial Microbiology *Leen De Gelder -- Department of Biotechnology*	4		1	A:2	120
11	I700234	Molecular Biotechnology *Yves Briers -- Department of Biotechnology*	4		1	A:2	120
12	I700235	Bioinformatics *Kris Audenaert -- Department of Plants and Crops*	4		1	A:2	120

2 General Courses — 16 credits

This module doesn't need to be followed when the student passes the qualification test and can follow the reduced track.
The qualification test is only possible for students with one of the following previous degrees:
•Bachelor in de chemie, afstudeerrichting biochemie of milieuzorg/milieutechnologie
•Bachelor in de biomedische laboratoriumtechnologie

Nr	Course		CRDT	Ref	MT1	Session	Study
1	I700247	Biosciences I *Jessika De Clippeleer -- Department of Biotechnology*	4		1	A:1	120
2	I700229	Supplementary Biochemistry *David Laureys -- Department of Biotechnology*	3		1	B:2	90
3	I700231	Balances of Biochemical and Chemical Processes *Leen De Gelder -- Department of Biotechnology*	4		1	A:2	120
4	I700219	Process Technology I *Mia Eeckhout -- Department of Food Technology, Safety and Health*	5		1	A:1	150

3 General Courses

Subscribe to 1 module depending on the previous degree from the following list. Subject to approval by the faculty.

3.1 Instroom chemie, biochemie — 4 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	I700220	Environmental Sciences *Leen De Gelder -- Department of Biotechnology*	4		1	A:1	120

3.2 Instroom chemie, milieutechnologie — 4 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	I700233	Gene Technology [en] *Tina Kyndt -- Department of Biotechnology*	4		1	A:1	120

3.3 — 4 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	I700220	Environmental Sciences *Leen De Gelder -- Department of Biotechnology*	4		1	A:1	120

3.4 Instroom biomedische laboratoriumtechnologie, farmaceutische — 4 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	I700220	Environmental Sciences *Leen De Gelder -- Department of Biotechnology*	4		1	A:1	120

3.5 Instroom agro- en biotechnologie, biotechnologie — 18 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	I700216	Analytical Chemistry *Pieter Vermeir -- Department of Green Chemistry and Technology*	5		1	B:1	150
2	I700225	Instrumental Analytical Chemistry *Pieter Vermeir -- Department of Green Chemistry and Technology*	5		1	A:2	150
3	I700220	Environmental Sciences *Leen De Gelder -- Department of Biotechnology*	4		1	A:1	120
4	I700233	Gene Technology [en] *Tina Kyndt -- Department of Biotechnology*	4		1	A:1	120

3.6 Instroom agro- en biotechnologie, voedingstechnologie — 18 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	I700211	Genetics *Kris Audenaert -- Department of Plants and Crops*	5		1	A:2	150
2	I700220	Environmental Sciences *Leen De Gelder -- Department of Biotechnology*	4		1	A:1	120
3	I700233	Gene Technology [en] *Tina Kyndt -- Department of Biotechnology*	4		1	A:1	120
4	I700225	Instrumental Analytical Chemistry *Pieter Vermeir -- Department of Green Chemistry and Technology*	5		1	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 2024-2025	f: annually, from 2025-2026	i: annually, from 2026-2027
b: tri-annually	d: bi-annually, from 2024-2025	g: bi-annually, from 2025-2026	j: bi-annually, from 2026-2027
	e: tri-annually, from 2024-2025	h: tri-annually, from 2025-2026	k: tri-annually, from 2026-2027