GHENT UNIVERSITY

Study Programme

Academic year 2021-2022

Global Campus South Korea,Faculty of Sciences,Faculty of Bioscience Engineering

Bachelor of Science in Molecular Biotechnology

Campus: Incheon

Language of instruction: English

Programme version 7

1 General Courses — 120 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	O000132	English for Academic Studies 1 *Jonathan Ozelton -- Department of Environmental Technology, Food Technology and Molecular Biotechnology*	5		1	A:1	150
2	O000133	General Biology *Hoo Sun Chung -- Department of Environmental Technology, Food Technology and Molecular Biotechnology*	5		1	A:1	150
3	O000078	Inorganic Chemistry 1: Structure of Matter *Yoon-Seok Chang -- Department of Environmental Technology, Food Technology and Molecular Biotechnology*	5		1	A:1	150
4	O000131	English for Academic Studies 2 *Michael Dunne -- Department of Environmental Technology, Food Technology and Molecular Biotechnology*	5		1	B:1, A:2	150
5	O000087	Inorganic Chemistry 2: Reactivity of Matter *Antonio Rizzo -- Department of Environmental Technology, Food Technology and Molecular Biotechnology*	5		1	A:2	150
6	O000155	Introduction to Biochemistry: Biomolecules *Sam Van Haute -- Department of Environmental Technology, Food Technology and Molecular Biotechnology*	5		1	A:2	150
7	O000095	Mathematics 1: Engineering Mathematics *Shodhan Rao -- Department of Environmental Technology, Food Technology and Molecular Biotechnology*	10		1	A:J	300
8	O000134	Physics 1 and 2: Mechanics, Vibration, Waves and Thermodynamics *Soebiakto Loekman -- Department of Environmental Technology, Food Technology and Molecular Biotechnology*	10		1	A:J	300
9	O000096	Informatics *Wesley De Neve -- Department of Environmental Technology, Food Technology and Molecular Biotechnology*	10		1	A:J	300
10	O000082	Organic Chemistry 1: Structure and Reactivity *Di Wu -- Department of Environmental Technology, Food Technology and Molecular Biotechnology*	5		2	A:1	150
11	O000136	Chemical Analytical Methods *Tanja Cirkovic Velickovic -- Department of Environmental Technology, Food Technology and Molecular Biotechnology*	4		2	A:1	120
12	O000137	Plant Biology *Stephen Depuydt -- Department of Plant Biotechnology and Bioinformatics*	3		2	A:1	90
13	O000138	Animal Biology *Magdalena Radwanska -- Department of Environmental Technology, Food Technology and Molecular Biotechnology*	3		2	A:1	75
14	O000156	Biochemistry: Metabolism *Stefan Magez -- Department of Environmental Technology, Food Technology and Molecular Biotechnology*	4		2	A:1	120
15	O000083	Mathematics 2: Multivariable Calculus and Geometry *Shodhan Rao -- Department of Environmental Technology, Food Technology and Molecular Biotechnology*	5		2	A:1	150
16	O000091	Physics 3: Electricity and Magnetism *Serge Zhuiykov -- Department of Environmental Technology, Food Technology and Molecular Biotechnology*	5		2	A:1	150
17	O000157	Microbiology *Magdalena Radwanska -- Department of Environmental Technology, Food Technology and Molecular Biotechnology*	4		2	A:2	120
18	O000092	Organic Chemistry 2: Advanced Reactivity *Di Wu -- Department of Environmental Technology, Food Technology and Molecular Biotechnology*	5		2	A:2	150
19	O000094	Physics 4: Optics and Physical and Chemical Thermodynamics *Serge Zhuiykov -- Department of Environmental Technology, Food Technology and Molecular Biotechnology*	5		2	A:2	150
20	O000088	Mathematics 3: Differential Equations *Shodhan Rao -- Department of Environmental Technology, Food Technology and Molecular Biotechnology*	5		2	A:2	150

21	O000161	Environmental Chemistry and Technology: Concepts and Methods *Philippe Heynderickx -- Department of Environmental Technology, Food Technology and Molecular Biotechnology*	4	2	A:2	120
22	O000159	Modern Aspects of Food *Sam Van Haute -- Department of Environmental Technology, Food Technology and Molecular Biotechnology*	4	2	A:2	120
23	O000160	Molecular Biology: Concepts and Methods *Magdalena Radwanska -- Department of Environmental Technology, Food Technology and Molecular Biotechnology*	4	2	A:2	120

2 General Courses 110 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	O000140	Process Engineering *Philippe Heynderickx -- Department of Environmental Technology, Food Technology and Molecular Biotechnology*	5		3	A:1	150
2	O000141	Process Modelling and Control *Shodhan Rao -- Department of Environmental Technology, Food Technology and Molecular Biotechnology*	5		3	A:1	150
3	O000050	Immunology *Stefan Magez -- Department of Environmental Technology, Food Technology and Molecular Biotechnology*	5		3	A:1	150
4	O000178	Bioinformatics 1 *Wesley De Neve -- Department of Environmental Technology, Food Technology and Molecular Biotechnology*	5		3	A:1	150
5	O000179	Molecular Biology: Advanced Topics in Eukaryotes *Hoo Sun Chung -- Department of Environmental Technology, Food Technology and Molecular Biotechnology*	6		3	A:1	150
6	O000139	Probability and Statistics *Joris Vankerschaver -- Department of Environmental Technology, Food Technology and Molecular Biotechnology*	10		3	A:J	250
7	O000162	Scientific Research Writing *Michael Dunne -- Department of Environmental Technology, Food Technology and Molecular Biotechnology*	5		3	B:2, A:J	150
8	O000180	Bioinformatics 2 *Zhen Li -- Department of Plant Biotechnology and Bioinformatics*	5		3	A:2	150
9	O000024	Economics and Marketing *Christine Yung Hung -- Department of Agricultural Economics*	5		3	A:2	150
10	O000181	Molecular Genetics *Geert De Jaeger -- Department of Plant Biotechnology and Bioinformatics*	3		3	A:2	90
11	O000182	Plant Physiology *Stephen Depuydt -- Department of Plant Biotechnology and Bioinformatics*	3		3	A:2	90
12	O000183	Integrated Practicum 1: Plant Genetics and Physiology *Eun Kyung Yoon -- Department of Environmental Technology, Food Technology and Molecular Biotechnology*	3		3	A:2	75
13	C004085	Analytical Biochemistry *Els Van Damme -- Department of Biotechnology*	5		4	A:1	150
14	C004086	Biomedical Physiology *Peter Brouckaert -- Department of Molecular Biology*	5		4	A:1	150
15	I002852	Industrial Biotechnology *Inge Van Bogaert -- Department of Biotechnology*	4		4	A:1	120
16	C004396	Gene Technology *Geert Berx -- Department of Molecular Biology*	4		4	A:1	120
17	C004397	Integrated Practicum 2: Gene Technology in Practice *Xavier Saelens -- Department of Biochemistry, Physiology and Microbiology*	3		4	A:1	75
18	C002865	Bioethics *Farah Focquaert -- Department of Philosophy and Moral Sciences*	3		4	B:1	80
19	O000163	Management, Entrepreneurship and Intellectual Property *Benedikt Sas -- Department of Food Technology, Safety and Health*	4		4	A:2	108
20	O000145	Plant Biotechnology *Godelieve Gheysen -- Department of Biotechnology*	4		4	A:2	108
21	O000184	Medical Biotechnology *Jens Staal -- Department of Biochemistry, Physiology and Microbiology*	3		4	A:2	90
22	O000164	Company Visits and Seminars *Michael Dunne -- Department of Environmental Technology, Food Technology and Molecular Biotechnology*	3		4	(A:2)[c]	90
23	O000165	Bachelor's Project *Michael Dunne -- Department of Environmental Technology, Food Technology and Molecular Biotechnology*	12		4	A:J	360

3 Elective Courses 10 credits

3.1 Programme-specific Elective Courses — 5 credits

Subscribe to 5 credit units from the following list.

Nr	Course		CRDT	Ref	MT1	Session	Study
1	C004096	Molecular Cell Biology *Roosmarijn Vandenbroucke -- Department of Molecular Biology*	5		4	A:1	130
2	I002853	Research-to-Business Case Studies *Erik Meers -- Department of Green Chemistry and Technology*	5		4	A:1	125

3.2 Personal Professional Development elective module — 5 credits

Subscribe to 5 credit units from one of the modules from the following list.
Subject to approval by the Curriculum Committee.

3.2.1 Personal Professional Development — 5 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	O000166	Personal Professional Development *Michael Dunne -- Department of Environmental Technology, Food Technology and Molecular Biotechnology*	5		4	A:2	135

3.2.2 Course offer GUGC-UGent — 5 credits

Subscribe to no more than 5 credit units from the following list.
The letter in the "Ref" column indicates in which programme the course can be taken as elective (E = Environmental Technology; F = Food Technology; M = Molecular Biotechnology; ALL = all programmes).

Nr	Course		CRDT	Ref	MT1	Session	Study
1	O000168	Experimental Food Biochemistry *Tanja Cirkovic Velickovic -- Department of Food Technology, Safety and Health*	5	E,M	4	A:2	150
2	O000152	Food Microbiology and Preservation *Mieke Uyttendaele -- Department of Food Technology, Safety and Health*	5	E,M	4	A:2	150
3	O000167	Reflection on Sustainable Development *Stephen Depuydt -- Department of Plant Biotechnology and Bioinformatics*	5	ALL	4	A:2	125
4	O000050	Immunology *Stefan Magez -- Department of Environmental Technology, Food Technology and Molecular Biotechnology*	5	E,F	4	A:1	150
5	O000111	Plant Physiology *Stephen Depuydt -- Department of Plant Biotechnology and Bioinformatics*	5	E,F	4	A:2	125

3.2.3 Course offer Incheon Global Campus Universities — 5 credits

Subscribe to 5 credit units from courses offered at the partner universities at Incheon Global Campus.
Subject to approval by the Curriculum Committee.

3.2.4 Course offer Korean Partner Universities — 5 credits

Subscribe to 5 credit units from courses offered at Korean partner universities.

Subject to approval by the Curriculum Committee.

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