GHENT UNIVERSITY

Study Programme

Academic year 2020-2021

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 6

1 General Courses — 124 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	O000132	English for Academic Studies 1 *Michael Dunne -- 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	B:2, A:1	150
3	O000078	Inorganic Chemistry 1: Structure of Matter *Francis Verpoort -- 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 *Francis Verpoort -- 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	B: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 *Philippe Heynderickx -- 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 *Philippe Heynderickx -- 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	O000158	Environmental Chemistry *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
24	O000161	Environmental Chemistry and Technology: Concepts and Methods	4	2		120

2 General Courses — 120 credits

The courses programmed in the 1st semester of the 4th bachelor's year are to be taken at the home campus of Ghent University

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	O000105	Bioinformatics *Wesley De Neve -- Department of Environmental Technology, Food Technology and Molecular Biotechnology*	5		3	A:1	150
5	O000143	Molecular Biology *Hoo Sun Chung -- Department of Environmental Technology, Food Technology and Molecular Biotechnology*	5		3	A:1	150
6	O000139	Probability and Statistics *Arnout Van Messem -- Department of Environmental Technology, Food Technology and Molecular Biotechnology*	10		3	A:J	250
7	O000120	Company Visits and Scientific Seminars *Michael Dunne -- Department of Environmental Technology, Food Technology and Molecular Biotechnology*	10		3	A:J	250
8	O000024	Economics and Marketing *Christine Yung Hung -- Department of Agricultural Economics*	5		3	A:2	150
9	O000114	Molecular Genetics *Geert De Jaeger -- Department of Plant Biotechnology and Bioinformatics*	5		3	A:2	150
10	O000111	Plant Physiology *Stephen Depuydt -- Department of Plant Biotechnology and Bioinformatics*	5		3	A:2	125
11	I002412	Case Studies and Company Visits *Erik Meers -- Department of Green Chemistry and Technology*	5		4	A:1	125
12	C004085	Analytical Biochemistry *Bart Devreese -- Department of Biochemistry, Physiology and Microbiology*	5		4	A:1, B:J	150
13	C004086	Biomedical Physiology *Peter Brouckaert -- Department of Molecular Biology*	5		4	A:1, B:J	150
14	I002413	Industrial Biotechnology *Inge Van Bogaert -- Department of Biotechnology*	5		4	A:1, B:J	150
15	C004087	Gene Technology *Geert Berx -- Department of Molecular Biology*	5		4	A:1	150
16	C002865	Bioethics *Heidi Mertes -- Department of Philosophy and Moral Sciences*	3		4	B:1	80
17	O000154	Research Methodology and Project *Michael Dunne -- Department of Environmental Technology, Food Technology and Molecular Biotechnology*	20		4	A:J	500
18	O000151	Project Management, Entrepreneurship and Intellectual Property *Benedikt Sas -- Department of Food Technology, Safety and Health*	4		4	A:2	108
19	O000145	Plant Biotechnology *Godelieve Gheysen -- Department of Biotechnology*	4		4	A:2	108
20	O000150	Medical Biotechnology *Jens Staal -- Department of Biochemistry, Physiology and Microbiology*	4		4	A:2	108

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 2021-2022	f: annually, from 2022-2023	i: annually, from 2023-2024
b: tri-annually	d: bi-annually, from 2021-2022	g: bi-annually, from 2022-2023	j: bi-annually, from 2023-2024
	e: tri-annually, from 2021-2022	h: tri-annually, from 2022-2023	k: tri-annually, from 2023-2024