

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 course name, using the following ISO codes:

bg: Bulgarian	de: German	es: Spanish	ja: Japanese	pl: Polish	sh: Croatian/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 is 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