

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	A:2, B:1	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

5.0 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

5.0 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

5.0 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

5.0 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

5.0 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

5.0 credits

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

Subject to approval by the Curriculum Committee.

Teaching languages

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