

Study Programme

Academic year 2024-2025

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 10

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 Biotal Indicative price: € 0	5 technology	1	A:1	150
2	O000133	General Biology Hoo Sun Chung Department of Environmental Technology, Food Technology and Molecular Biotect Indicative price: € 54	5 hnology	1	A:1	150
3	O000078	Inorganic Chemistry 1: Structure of Matter Philippe Heynderickx Department of Environmental Technology, Food Technology and Molecular of Indicative price: € 0	5 Biotechnology	1	A:1	150
4	O000185	Introduction to Engineering Mathematics Joris Vankerschaver Department of Environmental Technology, Food Technology and Molecular Buildicative price: € 0	5 iotechnology	1	A:1	150
5	O000187	Physics 1: Mechanics, Motion, Energy and Momentum Soebiakto Loekman Department of Environmental Technology, Food Technology and Molecular Bil Indicative price: € 47	5 iotechnology	1	A:1	150
6	O000131	English for Academic Studies 2 Michael Dunne Department of Environmental Technology, Food Technology and Molecular Bioteck Indicative price: € 0	5 hnology	1	B:1, A:2	150
7	O000087	Inorganic Chemistry 2: Reactivity of Matter Philippe Heynderickx Department of Environmental Technology, Food Technology and Molecular a Indicative price: unknown	5 Biotechnology	1	A:2	150
8	O000155	Introduction to Biochemistry: Biomolecules Mahta Mirzaei Department of Environmental Technology, Food Technology and Molecular Biotech Indicative price: € 0	5 nnology	1	A:2	150
9	O000186	Mathematics 1: One-variable calculus and algebra Shodhan Rao Department of Environmental Technology, Food Technology and Molecular Biotechn Indicative price: € 0	5 nology	1	A:2	150
10	O000188	Physics 2: Vibration, Waves and Thermodynamics Soebiakto Loekman Department of Environmental Technology, Food Technology and Molecular Bis Indicative price: € 47	5 otechnology	1	A:2	150
11	O000096	Informatics Wesley De Neve Department of Environmental Technology, Food Technology and Molecular Biotecular Biotecula	10 chnology	1	A:J	300
12	O000082	Organic Chemistry 1: Structure and Reactivity Di Wu Department of Environmental Technology, Food Technology and Molecular Biotechnology Indicative price: € 0	5	2	A:1	150
13	O000136	Chemical Analytical Methods Jihae Park Department of Environmental Technology, Food Technology and Molecular Biotechnology Indicative price: unknown	4 ogy	2	A:1	120
14	O000137	Plant Biology Dong Hye Seo Department of Environmental Technology, Food Technology and Molecular Biotech.	3 nology	2	A:1	90

	Indicative prices 6.0				
_	Indicative price: € 0				
15 O000138	Animal Biology Magdalena Radwanska Department of Environmental Technology, Food Technology and Molecular Bi Indicative price: € 0	3 iotechnology	2	A:1	75
16 O000156	Biochemistry: Metabolism Dongik Park Department of Environmental Technology, Food Technology and Molecular Biotechnology Indicative price: unknown	4	2	A:1	120
17 O000083	Mathematics 2: Multivariable Calculus and Geometry Shodhan Rao Department of Environmental Technology, Food Technology and Molecular Biotechnology Indicative price: € 0	5 gy	2	A:1	150
18 0000091	Physics 3: Electricity and Magnetism Serge Zhuiykov Department of Environmental Technology, Food Technology and Molecular Biotechnology and Molecular Biotechnology (Indicative price: € 119)	5 ology	2	A:1	150
19 O000157	Microbiology Magdalena Radwanska Department of Environmental Technology, Food Technology and Molecular Buildicative price: unknown	4 iotechnology	2	A:2	120
20 0000092	Organic Chemistry 2: Advanced Reactivity Di Wu Department of Environmental Technology, Food Technology and Molecular Biotechnology Indicative price: € 0	5	2	A:2	150
21 O000094	Physics 4: Optics and Physical and Chemical Thermodynamics Serge Zhuiykov Department of Environmental Technology, Food Technology and Molecular Biotechnology. Indicative price: € 206	5 ology	2	A:2	150
22 O000088	Mathematics 3: Differential Equations Shodhan Rao Department of Environmental Technology, Food Technology and Molecular Biotechnology Indicative price: € 0	5 gy	2	A:2	150
23 O000161	Environmental Chemistry and Technology: Concepts and Methods Jihae Park Department of Environmental Technology, Food Technology and Molecular Biotechnology Indicative price: unknown	4	2	A:2	120
24 O000159	Modern Aspects of Food Sam Van Haute Department of Environmental Technology, Food Technology and Molecular Biotechnology and Biotechnology and Biotechnology and Biotec	4 ology	2	A:2	120
25 O000160	Molecular Biology: Concepts and Methods Magdalena Radwanska Department of Environmental Technology, Food Technology and Molecular Biological Section 1.	4 iotechnology	2	A:2	120
0.00	I Courses			440	حاناه

2 General Courses	110 credits
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The courses programmed in the 1st semester of the 4th bachelor's year are to be taken at the home campus of Ghent University.

Йr	Course		CRDT	Ref MT1	Session	Study
1	O000140	Process Engineering Philippe Heynderickx Department of Environmental Technology, Food Technology and Molecula Indicative price: ≤ 0	5 ar Biotechnology	3	A:1	150
2	O000141	Process Modelling and Control Shodhan Rao Department of Environmental Technology, Food Technology and Molecular Biotec Indicative price: ≤ 0	5 hnology	3	A:1	150
3	O000050	Immunology Magdalena Radwanska Department of Environmental Technology, Food Technology and Moleculoricative price: € 0	5 ular Biotechnolo	3 ngy	A:1	150
4	O000178	Bioinformatics 1 Wesley De Neve Department of Environmental Technology, Food Technology and Molecular Bioindicative price: € 1,080	5 technology	3	A:1	150
5	O000179	Molecular Biology: Advanced Topics in Eukaryotes Hoo Sun Chung Department of Environmental Technology, Food Technology and Molecular Biote Indicative price: € 78	6 echnology	3	A:1	150
6	O000189	Probability and Statistics Joris Vankerschaver Department of Environmental Technology, Food Technology and Molecular Indicative price: ≤ 0	5 Biotechnology	3	A:1	150
7	O000162	Scientific Research Writing Jonathan Ozelton Department of Environmental Technology, Food Technology and Molecular Billindicative price: ≤ 0	5 iotechnology	3	B:2, A:J	150

8	O000180	Bioinformatics 2 Zhen Li Department of Plant Biotechnology and Bioinformatics Indicative price: unknown	5	3	A:2	150
9	O000024	Economics and Marketing Christine Yung Hung Department of Agricultural Economics Indicative price: unknown	5	3	A:2	150
10	O000190	Introduction to Statistical Modelling Joris Vankerschaver Department of Environmental Technology, Food Technology and Molecular Biotechnology Price: ≤ 0	5 chnology	3	A:2	150
11	O000181	Molecular Genetics Héloïse Bastiaanse Department of Plant Biotechnology and Bioinformatics Indicative price: € 85	3	3	A:2	90
12	O000182	Plant Physiology Dong Hye Seo Department of Environmental Technology, Food Technology and Molecular Biotechnology Indicative price: unknown	3 gy	3	A:2	90
13	O000183	Integrated Practicum 1: Plant Genetics and Physiology Dong Hye Seo Department of Plant Biotechnology and Bioinformatics Indicative price: € 0	3	3	A:2	75
14	C004085	Analytical Biochemistry Els Van Damme Department of Biotechnology Indicative price: € 8	5	4	A:1	150
15	C004086	Biomedical Physiology Dirk de Graaf Department of Biochemistry, Physiology and Microbiology Indicative price: ≤ 0	5	4	A:1	150
16	1002852	Industrial Biotechnology Inge Van Bogaert Department of Biotechnology Indicative price: € 35	4	4	A:1	120
17	C004396	Gene Technology Geert Berx Department of Molecular Biology Indicative price: € 0	4	4	A:1	120
18	C004397	Integrated Practicum 2: Gene Technology in Practice Xavier Saelens Department of Biochemistry, Physiology and Microbiology Indicative price: € 0	3	4	A:1	75
19	C002865	Bioethics Michiel De Proost Department of Philosophy and Moral Sciences Indicative price: € 5	3	4	B:1	80
20	O000163	Management, Entrepreneurship and Intellectual Property Benedikt Sas Department of Food Technology, Safety and Health Indicative price: unknown	4	4	A:2	108
21	O000145	Plant Biotechnology Laurens Pauwels Department of Biotechnology Indicative price: € 0	4	4	A:2	108
22	O000184	Medical Biotechnology Jens Staal Department of Biochemistry, Physiology and Microbiology Indicative price: unknown	3	4	A:2	90
23	O000164	Company Visits and Seminars Michael Dunne Department of Environmental Technology, Food Technology and Molecular Biotechnology Indicative price: $\in \mathbb{O}$	3 ogy	4	A:2	90
24	O000165	Bachelor's Project Michael Dunne Department of Environmental Technology, Food Technology and Molecular Biotechnology Indicative price: € 14	12 ogy	4	A:J	360
3	Elective	Courses			10 cre	edits

3.1 Programme-specific Elective Courses

5 credits

Subscribe to 5 credit units from the following list.

Nr (Course		CRDT F	Ref MT1	Session	Study
1 (C004096	Molecular Cell Biology	5	4	A:1	130
		Roosmarijn Vandenbroucke Department of Molecular Biology				
		Indicative price: € 0				

2 I002853 Research-to-Business Case Studies

Erik Meers -- Department of Green Chemistry and Technology

Indicative price: unknown

3.2 Elective courses 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

125

A:1

Subscribe to 5 credit units from the following list.

Nr	Course		CRDT	Ref MT1	Session	Study
1	O000166	Personal Professional Development Michael Dunne Department of Environmental Technology, Food Technology and Molecular Indicative price: € 134	5 Biotechnology	4	A:2	135
2	O000191	Intercultural Communication: Concepts and Skills Mara Santi Department of Literary Studies Indicative price: € 0	3	4	A:2	90
3	O000192	Intercultural Communication: Leadership and Professional Competencies Mara Santi Department of Literary Studies Indicative price: € 0	3	4	A:2	75

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	<i>57.</i> 1 0 <i>7</i>	CRDT	Ref	MT1	Session	Study
1	O000168	Experimental Food Biochemistry Mahta Mirzaei Department of Environmental Technology, Food Technology and Molecular Biotect Indicative price: € 0	5 hnology	E,M	4	A:2	150
2	O000152	Food Microbiology and Preservation Sam Van Haute Department of Environmental Technology, Food Technology and Molecular Biotec Indicative price: unknown	5 chnology	E,M	4	A:2	150
3	O000180	Bioinformatics 2 Zhen Li Department of Plant Biotechnology and Bioinformatics Indicative price: unknown	5	E,F	4	A:2	150
4	O000050	Immunology Magdalena Radwanska Department of Environmental Technology, Food Technology and Molecula Indicative price: € 0	5 ar Biotechnolo	E,F ogy	4	A:1	150
5	O000111	Plant Physiology Dong Hye Seo Department of Environmental Technology, Food Technology and Molecular Biotech Indicative price: € 0	5 anology	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.

Programme related study costs

Type: Laptop

Name: Laptop

Indicative price: € 1,000

Optional: Yes

Fulltime standard learning track year: 1

Additional information: A laptop is required to support several courses within the programme, a.o. Informatics (BA1)

Type: Calculator

Name: Calculator Indicative price: € 14

Optional: No

Fulltime standard learning track year: 1

Usability and Lifetime within the Study Programme : regularly Additional information: Estimated cost: KRW 20,000 - EUR 14

Type: Lab Material

Name: Lab coat Indicative price: € 15 Optional: No

Fulltime standard learning track year: 1

Additional information: A lab coat is required for the practical sessions for various courses (wet labs). It is paid by GUGC (first use). In case of loss or damage, to be bought by the student. Estimated cost: KRW 21,500 - EUR 15

Type: Other

Name: GUGC badge Indicative price: € 10 Optional: No

Fulltime standard learning track year: 1

Additional information: A GUGC badge - used as student card, entrance badge and e-purse - is paid by GUGC (first use). In case of loss or damage, to be bought by the student. Estimated cost: KRW 15,000 - EUR 10

Type: Other

Name: Ghent semester - Belgian residence card

Indicative price: € 29

Optional: No

Fulltime standard learning track year: 4

Additional information: Cost for Belgian residence card, mandatory for stay in Belgium > 3 m.

Type: Other

Name: Ghent semester - All-in health and travel insurance

Indicative price: Free or paid by faculty

Optional: No

Fulltime standard learning track year: 4

Additional information: All-in insurance (3 m. required for visa application) is paid by GUGC for the entire period of stay in Ghent (cost: EUR 400)

Type: Other

Name: Ghent semester - Mandatory Belgian health insurance

Indicative price: € 75

Optional: No

Fulltime standard learning track year: 4

Additional information: Mandatory Belgian health insurance for all residents in Belgium (stay > 3 m)

Type: Other

Name: Ghent semester - Visa application cost

Indicative price: € 630

Optional: No

Fulltime standard learning track year: 4

Additional information: Visa fee: KRW 270,000 - EUR 183; Visa handling fee: KRW 350,382 - EUR 237; Cost Medical

Certificate: may vary according to hospital (see info on Ufora): estimate: KRW 310,000 - EUR 210

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

pt: Portuguese cs: Czech el: Greek fr: French nl: Dutch sl: Slovene da: Danish en: English it: Italian ru: Russian no: Norwegian 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 2025-2026 f: annually, from 2026-2027 i: annually, from 2027-2028 d: bi-annually, from 2025-2026 g: bi-annually, from 2026-2027 j: bi-annually, from 2027-2028 b: tri-annually h: tri-annually, from 2026-2027 k: tri-annually, from 2027-2028 e: tri-annually, from 2025-2026

Learning materials

The prices stated are indicative and subject to fluctuations.

The list of learning materials per course unit can be found in the course sheets.