

Study Programme

Academic year 2022-2023

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 8

1	General	Courses	120	credits
۱r	Course	CRDT Ref MT1	Session	Study
		English for Academic Studies 1 5 1 Jonathan Ozelton Department of Environmental Technology, Food Technology and Molecular Biotechnology	A:1	150
	O000133	General Biology 5 1 Hoo Sun Chung Department of Environmental Technology, Food Technology and Molecular Biotechnology	A:1	150
,	O000078	Inorganic Chemistry 1: Structure of Matter 5 1 Philippe Heynderickx Department of Environmental Technology, Food Technology and Molecular Biotechnol	A:1 ogy	150
	O000185	Introduction to Engineering Mathematics 5 1 Joris Vankerschaver Department of Environmental Technology, Food Technology and Molecular Biotechnology	A:1	150
	O000187	Physics 1: Mechanics, Motion, Energy and Momentum 5 1 Soebiakto Loekman Department of Environmental Technology, Food Technology and Molecular Biotechnology	A:1 gy	150
6	O000131	English for Academic Studies 2 5 1 Michael Dunne Department of Environmental Technology, Food Technology and Molecular Biotechnology	B:1, A:2	150
	O000087	Inorganic Chemistry 2: Reactivity of Matter 5 1 Philippe Heynderickx Department of Environmental Technology, Food Technology and Molecular Biotechnol	A:2	150
	O000155	Introduction to Biochemistry: Biomolecules 5 1 Mahta Mirzaei Department of Environmental Technology, Food Technology and Molecular Biotechnology	A:2	150
	O000186	Mathematics 1: One-variable calculus and algebra 5 1 Shodhan Rao Department of Environmental Technology, Food Technology and Molecular Biotechnology	A:2	150
0	O000188	Physics 2: Vibration, Waves and Thermodynamics 5 1 Soebiakto Loekman Department of Environmental Technology, Food Technology and Molecular Biotechnology	A:2 gy	150
1	O000096	Informatics 10 1 Wesley De Neve Department of Environmental Technology, Food Technology and Molecular Biotechnology	A:J	300
2	O000082	Organic Chemistry 1: Structure and Reactivity 5 2 Di Wu Department of Environmental Technology, Food Technology and Molecular Biotechnology	A:1	150
3	O000136	Chemical Analytical Methods 4 2 Jihae Park Department of Environmental Technology, Food Technology and Molecular Biotechnology	A:1	120
4	O000137	Plant Biology 3 2 Stephen Depuydt Department of Plant Biotechnology and Bioinformatics	A:1	90
5	O000138	Animal Biology 3 2 Magdalena Radwanska Department of Environmental Technology, Food Technology and Molecular Biotechr	A:1	75
6	O000156	Biochemistry: Metabolism 4 2 Stefan Magez Department of Environmental Technology, Food Technology and Molecular Biotechnology	A:1	120
7	O000083	Mathematics 2: Multivariable Calculus and Geometry 5 2 Shodhan Rao Department of Environmental Technology, Food Technology and Molecular Biotechnology	A:1	150
8	O000091	Physics 3: Electricity and Magnetism 5 2 Serge Zhuiykov Department of Environmental Technology, Food Technology and Molecular Biotechnology	A:1	150
9	O000157	Microbiology 4 2 Magdalena Radwanska Department of Environmental Technology, Food Technology and Molecular Biotechr	A:2	120
0	O000092	Organic Chemistry 2: Advanced Reactivity 5 2 Di Wu Department of Environmental Technology, Food Technology and Molecular Biotechnology	A:2	150
1	O000094	Physics 4: Optics and Physical and Chemical Thermodynamics 5 2 Serge Zhuiykov Department of Environmental Technology, Food Technology and Molecular Biotechnology	A:2	150
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22 0000088	Mathematics 3: Differential Equations Shodhan Rao Department of Environmental Technology, Food Technology	5 and Molecul	2 ar Biotechnology	A:2	150
23 0000161	Environmental Chemistry and Technology: Concepts and Methods Jihae Park Department of Environmental Technology, Food Technology and	4 Molecular E	2 Biotechnology	A:2	120
24 O000159	Modern Aspects of Food Sam Van Haute Department of Environmental Technology, Food Technolog	4 y and Molec	2 ular Biotechnolog	A:2 y	120
25 O000160	Molecular Biology: Concepts and Methods Magdalena Radwanska Department of Environmental Technology, Food Technology	4 chnology an	2 d Molecular Biote	A:2	120

2 General Courses 110 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1		Process Engineering	5		3	A:1	150
2	O000141	Philippe Heynderickx Department of Environmental Technology, Food Technology Food Technology and Control Shodhan Rao Department of Environmental Technology, Food Technology	5		3	A:1	150
3	O000050	Immunology Stefan Magez Department of Environmental Technology, Food Technology a	5		3	A:1	150
4	O000178	Bioinformatics 1 Wesley De Neve Department of Environmental Technology, Food Technology	5 gy and M	olecular	3 Biotechnolog	A:1 gy	150
5	O000179	Molecular Biology: Advanced Topics in Eukaryotes Hoo Sun Chung Department of Environmental Technology, Food Technolog	6 y and Mo	olecular E	3 Biotechnolog	A:1	150
6	O000189	Probability and Statistics Joris Vankerschaver Department of Environmental Technology, Food Technology	5 ology an	d Molecu	3 ular Biotechn	A:1 nology	150
7	O000162	Scientific Research Writing Jonathan Ozelton Department of Environmental Technology, Food Technology	5 gy and N	1olecula:	3 r Biotechnolo	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	O000190	Introduction to Statistical Modelling Joris Vankerschaver Department of Environmental Technology, Food Technology	5 ology an	d Molecu	3 ular Biotechn	A:2 nology	150
11	O000181	Molecular Genetics Héloïse Bastiaanse Department of Plant Biotechnology and Bioinformatics	3		3	A:2	90
12	O000182	Plant Physiology Jonas De Saeger Department of Plant Biotechnology and Bioinformatics	3		3	A:2	90
13	O000183	Integrated Practicum 1: Plant Genetics and Physiology Eun Kyung Yoon Department of Environmental Technology, Food Technolog	3 gy and M	olecular	3 Biotechnolog	A:2	75
14	C004085	Analytical Biochemistry Els Van Damme Department of Biotechnology	5		4	A:1	150
15	C004086	Biomedical Physiology Dirk de Graaf Department of Biochemistry, Physiology and Microbiology	5		4	A:1	150
16	1002852	Industrial Biotechnology Inge Van Bogaert Department of Biotechnology	4		4	A:1	120
17	C004396	Gene Technology Geert Berx Department of Molecular Biology	4		4	A:1	120
18	C004397	Integrated Practicum 2: Gene Technology in Practice Xavier Saelens Department of Biochemistry, Physiology and Microbiology	3		4	A:1	75
19	C002865	Bioethics Farah Focquaert Department of Philosophy and Moral Sciences	3		4	B:1	80
20	O000163	Management, Entrepreneurship and Intellectual Property Benedikt Sas Department of Food Technology, Safety and Health	4		4	A:2	108
21	O000145	Plant Biotechnology Godelieve Gheysen Department of Biotechnology	4		4	A:2	108
22	O000184	Medical Biotechnology Jens Staal Department of Biochemistry, Physiology and Microbiology	3		4	A:2	90
23	O000164	Company Visits and Seminars Michael Dunne Department of Environmental Technology, Food Technology	3 and Mol	ecular B	4 iotechnology	A:2	90

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Michael Dunne -- Department of Environmental Technology, Food Technology and Molecular Biotechnology

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		Session	Study
1	C004096	Molecular Cell Biology	5	4	A:1	130
		Roosmarijn Vandenbroucke Department of Molecular Biology				
2	1002853	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

N			CRDT		Session	Study
1	O000166	Personal Professional Development	5	4	A:2	135
	Michael Dunne Department of Environmental Technology, Food Technology and Molecular Biotechnology					

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			CRDT			Session	Study
1	O000168	Experimental Food Biochemistry	5	E,M	4	A:2	150
		Mahta Mirzaei Department of Environmental Technology, Food Technology a	and Moled	cular Bio	otechnology		
2	O000152	Food Microbiology and Preservation	5	E,M	4	A:2	150
		Sam Van Haute Department of Environmental Technology, Food Technology	and Mol	ecular E	Biotechnology		
3	O000180	Bioinformatics 2	5	E,F	4	A:2	150
		Zhen Li Department of Plant Biotechnology and Bioinformatics					
4	O000167	Reflection on Sustainable Development	5	ALL	4	A:2	125
5	O000050	Immunology	5	E,F	4	A:1	150
		Stefan Magez Department of Environmental Technology, Food Technology a	and Molec	ular Bio	otechnology		
6	O000111	Plant Physiology	5	E,F	4	A:2	125
		Jonas De Saeger Department of Plant Biotechnology and Bioinformatics					

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:

es: Spanish pl: Polish sh: Kroatian/Serbian bg: Bulgarian de: German zh: Chinese ia: Japanese 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 2023-2024 f: annually, from 2024-2025 i: annually, from 2025-2026 b: tri-annually from 2023-2024 g: bi-annually, from 2024-2025 j: bi-annually, from 2025-2026 h: tri-annually, from 2024-2025 k: tri-annually, from 2025-2026

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