

Study Programme

Academic year 2021-2022

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

Nr Course		CRDT I	Ref MT1	Session	Study
O00013	2 English for Academic Studies 1 Jonathan Ozelton Department of Environmental Technology, Food Technology and Molecular E	5 Biotechnology	1	A:1	150
2 O00013	3 General Biology Hoo Sun Chung Department of Environmental Technology, Food Technology and Molecular Bio	5 technology	1	A:1	150
3 O00007	3 Inorganic Chemistry 1: Structure of Matter Yoon-Seok Chang Department of Environmental Technology, Food Technology and Molecular B	5 Biotechnology	1	A:1	150
4 O00013	1 English for Academic Studies 2 Michael Dunne Department of Environmental Technology, Food Technology and Molecular Biol	5 technology	1	B:1, A:2	150
5 O00008	7 Inorganic Chemistry 2: Reactivity of Matter Antonio Rizzo Department of Environmental Technology, Food Technology and Molecular Biote	5 echnology	1	A:2	150
6 O00015	5 Introduction to Biochemistry: Biomolecules Sam Van Haute Department of Environmental Technology, Food Technology and Molecular Bio	5 technology	1	A:2	150
O00009	5 Mathematics 1: Engineering Mathematics Shodhan Rao Department of Environmental Technology, Food Technology and Molecular Biote	10 chnology	1	A:J	300
3 O00013	4 Physics 1 and 2: Mechanics, Vibration, Waves and Thermodynamics Soebiakto Loekman Department of Environmental Technology, Food Technology and Molecular	10 r Biotechnology	1	A:J	300
9 O00009	5 Informatics Wesley De Neve Department of Environmental Technology, Food Technology and Molecular Bio	10 otechnology	1	A:J	300
0 00008	2 Organic Chemistry 1: Structure and Reactivity Di Wu Department of Environmental Technology, Food Technology and Molecular Biotechnolog	5 av	2	A:1	150
11 O00013	6 Chemical Analytical Methods Tanja Cirkovic Velickovic Department of Environmental Technology, Food Technology and Mole	4 ecular Biotechnology	2	A:1	120
12 O00013	7 Plant Biology Stephen Depuydt Department of Plant Biotechnology and Bioinformatics	3	2	A:1	90
I3 O00013	3 Animal Biology Magdalena Radwanska Department of Environmental Technology, Food Technology and Molec	3 cular Biotechnology	2	A:1	75
14 O00015	Biochemistry: Metabolism Stefan Magez Department of Environmental Technology, Food Technology and Molecular Biote	4 echnology	2	A:1	120
15 O00008	3 Mathematics 2: Multivariable Calculus and Geometry Shodhan Rao Department of Environmental Technology, Food Technology and Molecular Biote	5 chnology	2	A:1	150
I6 O00009	1 Physics 3: Electricity and Magnetism Serge Zhuiykov Department of Environmental Technology, Food Technology and Molecular Bio	5 technology	2	A:1	150
I7 O00015	7 Microbiology Magdalena Radwanska Department of Environmental Technology, Food Technology and Molec	4 cular Biotechnology	2	A:2	120
18 O00009	2 Organic Chemistry 2: Advanced Reactivity Di Wu Department of Environmental Technology, Food Technology and Molecular Biotechnolog	5 77	2	A:2	150
I9 O00009	4 Physics 4: Optics and Physical and Chemical Thermodynamics Serge Zhuiykov Department of Environmental Technology, Food Technology and Molecular Bio	5 technology	2	A:2	150
20 00008		5	2	A:2	150

120 credits

21 O00	00161	Environmental Chemistry and Technology: Concepts and Met Philippe Heynderickx Department of Environmental Technology, Food Technology and M		2	A:2	120
22 000	00159	Modern Aspects of Food Sam Van Haute Department of Environmental Technology, Food Technology and Molecul	4 lar Biotechnology	2	A:2	120
23 000		Molecular Biology: Concepts and Methods Magdalena Radwanska Department of Environmental Technology, Food Technology and	4 Molecular Biotechnology	2	A:2	120
2 Ge	eneral	Courses			110 c	credits
Nr Cou	urse		CRDT Re	f MT1	Session	Study
1 000	00140	Process Engineering Philippe Heynderickx Department of Environmental Technology, Food Technology and M	5 Iolecular Biotechnology	3	A:1	150
2 000	00141	Process Modelling and Control Shodhan Rao Department of Environmental Technology, Food Technology and Molecular	5 [•] Biotechnology	3	A:1	150
3 O00	00050	Immunology Stefan Magez Department of Environmental Technology, Food Technology and Molecula	5 r Biotechnology	3	A:1	150
4 000	00178	Bioinformatics 1 Wesley De Neve Department of Environmental Technology, Food Technology and Molecu	5 ılar Biotechnology	3	A:1	150
5 000	00179	Molecular Biology: Advanced Topics in Eukaryotes Hoo Sun Chung Department of Environmental Technology, Food Technology and Molecul	6 Iar Biotechnology	3	A:1	150
6 O00	00139	Probability and Statistics Joris Vankerschaver Department of Environmental Technology, Food Technology and Mo	10 Necular Biotechnology	3	A:J	250
7 000	00162	Scientific Research Writing Michael Dunne Department of Environmental Technology, Food Technology and Molecul	5 ar Biotechnology	3	B:2, A:J	150
8 O00	00180	Bioinformatics 2 Zhen Li Department of Plant Biotechnology and Bioinformatics	5	3	A:2	150
9 000	00024	Economics and Marketing Christine Yung Hung Department of Agricultural Economics	5	3	A:2	150
10 000	00181	Molecular Genetics Geert De Jaeger Department of Plant Biotechnology and Bioinformatics	3	3	A:2	90
11 000	00182	Plant Physiology Stephen Depuydt Department of Plant Biotechnology and Bioinformatics	3	3	A:2	90
12 000		Integrated Practicum 1: Plant Genetics and Physiology Eun Kyung Yoon Department of Environmental Technology, Food Technology and Molecu	3 Jlar Biotechnology	3	A:2	75
13 C00	04085	Analytical Biochemistry Els Van Damme Department of Biotechnology	5	4	A:1	150
14 C00	04086	Biomedical Physiology Peter Brouckaert Department of Molecular Biology	5	4	A:1	150
15 1002	2852	Industrial Biotechnology Inge Van Bogaert Department of Biotechnology	4	4	A:1	120
16 C00		Gene Technology Geert Berx Department of Molecular Biology	4	4	A:1	120
17 C00		Integrated Practicum 2: Gene Technology in Practice Xavier Saelens Department of Biochemistry, Physiology and Microbiology	3	4	A:1	75
18 C00	02865	Bioethics Farah Focquaert Department of Philosophy and Moral Sciences	3	4	B:1	80
19 000		Management, Entrepreneurship and Intellectual Property Benedikt Sas Department of Food Technology, Safety and Health	4	4	A:2	108
20 000	00145	Plant Biotechnology Godelieve Gheysen Department of Biotechnology	4	4	A:2	108
21 000		Medical Biotechnology Jens Staal Department of Biochemistry, Physiology and Microbiology	3	4	A:2	90
22 000	00164	Company Visits and Seminars Michael Dunne Department of Environmental Technology, Food Technology and Molecul	3 ar Biotechnology	4	(A:2) ^c	90
23 000	00165	Bachelor's Project Michael Dunne Department of Environmental Technology, Food Technology and Molecul	12 ar Biotechnology	4	A:J	360
3 Ele	ective	Courses			10 0	credits

3 Elective Courses

10 credits

3.1 Programme-specific Elective Courses

Subscribe to 5 credit units from the fo	llowing list.	0007	5.4			
Nr Course		CRDT	Ref	MT1	Session	Study
1 C004096 Molecular Cell Biol Roosmarijn Vandenbroucke	O GY Department of Molecular Biology	5		4	A:1	130
2 1002853 Research-to-Busin Erik Meers Department o	ess Case Studies f 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 o Subject to approval by the Curriculum						
3.2.1 Personal Professional D	Development				5	credits
Nr Course		CRDT	Ref	MT1	Session	Study
1 O000166 Personal Profession Michael Dunne Departme	nal Development Int of Environmental Technology, Food Technology and Molecu	5 lar Biotechnology		4	A:2	135
3.2.2 Course offer GUGC-UG	ent				5	credits
Subscribe to no more than 5 credit un The letter in the "Ref" column indicate Food Technology; M = Molecular Biot	s in which programme the course can be taken	as elective (E = E	Environm	ental Techn	ology; F =	
Nr Course		CRDT	Ref	MT1	Session	Study
1 O000168 Experimental Food Tanja Cirkovic Velickovic	l Biochemistry Department of Food Technology, Safety and Health	5	E,M	4	A:2	150
2 O000152 Food Microbiology Mieke Uyttendaele Depar	and Preservation tment of Food Technology, Safety and Health	5	E,M	4	A:2	150
3 O000167 Reflection on Sust Stephen Depuydt Depart	ainable Development ment of Plant Biotechnology and Bioinformatics	5	ALL	4	A:2	125
4 O000050 Immunology Stefan Magez Departmer	t of Environmental Technology, Food Technology and Molecula	5 ar Biotechnology	E,F	4	A:1	150
5 O000111 Plant Physiology Stephen Depuydt Departu	ment of Plant Biotechnology and Bioinformatics	5	E,F	4	A:2	125
3.2.3 Course offer Incheon G	obal Campus Universities				5	credits
Subscribe to 5 credit units from course Subject to approval by the Curriculum	es offered at the partner universities at Incheon Committee.	Global Campus.				
3.2.4 Course offer Korean Pa	rtner Universities				5	credits
Subscribe to 5 credit units from course	es 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:

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 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