

Study Programme

Academic year 2024-2025

Global Campus South Korea, Faculty of Sciences, Faculty of Bioscience Engineering

Bachelor of Science in Environmental Technology

Campus: Incheon

Language of instruction: English

Programme version 11

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 Bioteclindicative price: ≤ 0	5 chnology		1	A:1	150
2	O000133	General Biology Hoo Sun Chung Department of Environmental Technology, Food Technology and Molecular Biotechn Indicative price: € 54	5 nology		1	A:1	150
3	O000078	Inorganic Chemistry 1: Structure of Matter Philippe Heynderickx Department of Environmental Technology, Food Technology and Molecular Bio Indicative price: € 0	5 otechnology		1	A:1	150
4	O000185	Introduction to Engineering Mathematics Joris Vankerschaver Department of Environmental Technology, Food Technology and Molecular Bio Indicative price: € 0	5 technology		1	A:1	150
5	O000187	Physics 1: Mechanics, Motion, Energy and Momentum Soebiakto Loekman Department of Environmental Technology, Food Technology and Molecular Biot Indicative price: € 47	5 technology		1	A:1	150
6	O000131	English for Academic Studies 2 Michael Dunne Department of Environmental Technology, Food Technology and Molecular Biotechnology and Molecular Biotechnology Price: € 0	5 nology		1	B:1, A:2	150
7	O000087	Inorganic Chemistry 2: Reactivity of Matter Philippe Heynderickx Department of Environmental Technology, Food Technology and Molecular Bio Indicative price: unknown	5 otechnology		1	A:2	150
8	O000155	Introduction to Biochemistry: Biomolecules Mahta Mirzaei Department of Environmental Technology, Food Technology and Molecular Biotechnology and Indicative price: € 0	5 ology		1	A:2	150
9	O000186	Mathematics 1: One-variable calculus and algebra Shodhan Rao Department of Environmental Technology, Food Technology and Molecular Biotechnology and Molecular Biotechnology Price: € 0	5 logy		1	A:2	150
10	O000188	Physics 2: Vibration, Waves and Thermodynamics Soebiakto Loekman Department of Environmental Technology, Food Technology and Molecular Biotal Indicative price: € 47	5 technology		1	A:2	150
11	O000096	Informatics Wesley De Neve Department of Environmental Technology, Food Technology and Molecular Biotech Indicative price: € 130	10 nology		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 1y		2	A:1	120
14	O000137	Plant Biology Dong Hye Seo Department of Environmental Technology, Food Technology and Molecular Biotechnol	3 ology		2	A:1	90

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	Indicative price: € 0				
15 O000138	Animal Biology	3	2	A:1	75
	Magdalena Radwanska Department of Environmental Technology, Food Technology and Molecular Indicative price: ≤ 0	Biotechnology			
16 O000156	Biochemistry: Metabolism	4	2	A:1	120
	Dongik Park Department of Environmental Technology, Food Technology and Molecular Biotechnology and Indicative price: unknown	ogy			
17 O000083	Mathematics 2: Multivariable Calculus and Geometry	5	2	A:1	150
	Shodhan Rao Department of Environmental Technology, Food Technology and Molecular Biotechnology and Biotechnology and Biotechnology and Biotechnology and Biotechnolog	logy			
18 O000091	Physics 3: Electricity and Magnetism	5	2	A:1	150
	Serge Zhuiykov Department of Environmental Technology, Food Technology and Molecular Biotechi Indicative price: € 119	nology			
19 O000157	Microbiology	4	2	A:2	120
	Magdalena Radwanska Department of Environmental Technology, Food Technology and Molecular Indicative price: unknown	Biotechnology			
20 0000092	Organic Chemistry 2: Advanced Reactivity	5	2	A:2	150
	Di Wu Department of Environmental Technology, Food Technology and Molecular Biotechnology Indicative price: € 0				
21 0000094	Physics 4: Optics and Physical and Chemical Thermodynamics	5	2	A:2	150
	Serge Zhuiykov Department of Environmental Technology, Food Technology and Molecular Biotechn Indicative price: € 206	nology			
22 O000088	Mathematics 3: Differential Equations	5	2	A:2	150
	Shodhan Rao Department of Environmental Technology, Food Technology and Molecular Biotechnology and Biotechnol	logy			
23 0000161	Environmental Chemistry and Technology: Concepts and Methods	4	2	A:2	120
	Jihae Park Department of Environmental Technology, Food Technology and Molecular Biotechnolog	TV .			
04 0000450	Indicative price: unknown		•	4.0	400
24 0000159	•	4	2	A:2	120
	Sam Van Haute Department of Environmental Technology, Food Technology and Molecular Biotechnology and Biotechnology and Biotechnology and Biotechnology and Biotechnolo	liology			
25 O000160		4	2	A:2	120
	Magdalena Radwanska Department of Environmental Technology, Food Technology and Molecular Indicative price: unknown	Biotechnology			
2 Genera	l Courses			106 cre	edits

2 General Courses	106 credits

The courses programmed in the 1st semester of the 4th bachelor's year are to be taken at the home campus of Ghent University. O000140 Process Engineering 5 3 A:1 150 Philippe Heynderickx -- Department of Environmental Technology, Food Technology and Molecular Biotechnology Indicative price: € 0 O000141 Process Modelling and Control 3 A:1 150 Shodhan Rao -- Department of Environmental Technology, Food Technology and Molecular Biotechnology Indicative price: € 0 O000100 Process Technology 5 3 A:1 150 Frederik Ronsse -- Department of Green Chemistry and Technology Indicative price: unknown O000170 Green Chemistry and Biotechnology 5 3 A:1 150 Di Wu -- Department of Environmental Technology, Food Technology and Molecular Biotechnology Indicative price: € 0 A:1 150 O000171 Air Treatment and Technology 3 Philippe Heynderickx -- Department of Environmental Technology, Food Technology and Molecular Biotechnology Indicative price: unknown O000189 Probability and Statistics 3 A:1 150 Joris Vankerschaver -- Department of Environmental Technology, Food Technology and Molecular Biotechnology Indicative price: € 0 O000162 Scientific Research Writing 3 B:2, A:J 150 Jonathan Ozelton -- Department of Environmental Technology, Food Technology and Molecular Biotechnology Indicative price: € 0

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8	O000024	Economics and Marketing	5	3	A:2	150
		Christine Yung Hung Department of Agricultural Economics Indicative price: unknown				
9	O000190	Introduction to Statistical Modelling Joris Vankerschaver Department of Environmental Technology, Food Technology and Molecular Biolecular Discrete: 0	5 iotechnology	3	A:2	150
10	O000172	Waste Valorization Erik Meers Department of Green Chemistry and Technology Indicative price: unknown	5	3	A:2	150
11	O000173	Remediation of Soil and Sediment Filip Tack Department of Green Chemistry and Technology Indicative price: € 20	5	3	A:2	150
12	O000174	Water Treatment and Technology Korneel Rabaey Department of Biotechnology Indicative price: unknown	5	3	A:2	150
13	1002853	Research-to-Business Case Studies Erik Meers Department of Green Chemistry and Technology Indicative price: unknown	5	4	A:1	125
14	1002606	Environmental Risk Assessment Karel De Schamphelaere Department of Animal Sciences and Aquatic Ecology Indicative price: € 0	5	4	A:1	150
15	1002535	Applied Marine Ecology Colin Janssen Department of Animal Sciences and Aquatic Ecology Indicative price: € 0	3	4	A:1	90
16	1002701	Clean Technology: Theory and Concepts Sophie Huysveld Department of Green Chemistry and Technology Indicative price: unknown	3	4	A:1	90
17	O000163	Management, Entrepreneurship and Intellectual Property Benedikt Sas Department of Food Technology, Safety and Health Indicative price: unknown	4	4	A:2	108
18	O000175	Environmental Law and Management Stijn Speelman Department of Agricultural Economics Indicative price: unknown	5	4	A:2	150
19	O000176	Modelling and Data Analysis for Environmental Applications Philippe Heynderickx Department of Environmental Technology, Food Technology and Molecular Endicative price: unknown	3 Biotechnology	4	A:2	90
20	O000177	Microbial Reuse Technology Di Wu Department of Environmental Technology, Food Technology and Molecular Biotechnology Indicative price: € 0	3	4	A:2	90
21	O000164	Company Visits and Seminars Michael Dunne Department of Environmental Technology, Food Technology and Molecular Biotech Indicative price: € 0	3 anology	4	A:2	90
22	O000165	Bachelor's Project Michael Dunne Department of Environmental Technology, Food Technology and Molecular Biotech Indicative price: € 14	12 anology	4	A:J	360
3	Elective	Courses			14 c	redits
3.′	1 Progra	mme-specific Elective Courses			9 (credits
	oscribe to 9 o	credit units from the following list.	CRDT Ref	MT1	Session	Study
1	1002504	Applied Freshwater Ecology Peter Goethals Department of Animal Sciences and Aquatic Ecology Indicative price: unknown	3	4	A:1	90
2	1002609	Environmental Microbiology Nico Boon Department of Biotechnology Indicative price: € 0	3	4	A:1	90
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4

A:1

90

3 I002702 Clean Technology: Assessment Methods

Indicative price: unknown

Sophie Huysveld -- Department of Green Chemistry and Technology

4 I002752 Advanced Wastewater Treatment Process Design 3 4 A:1 Eveline Volcke Department of Green Chemistry and Technology Indicative price: € 0	90
5 I002776 Processes in Practice Eveline Volcke Department of Green Chemistry and Technology Indicative price: € 2	90
6 I001439 Environmental Noise 3 4 A:1 Timothy Van Renterghem Department of Information Technology Indicative price: unknown	75
7 I002604 Oceans and Human Health Jana Asselman Department of Animal Sciences and Aquatic Ecology Indicative price: € 0	90
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
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).

Vr Course		CRDT	Ref	MT1	Session	Study
1 O000168	Experimental Food Biochemistry Mahta Mirzaei Department of Environmental Technology, Food Technology and Molecular Biotechnology 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 Biote 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
O000050	Immunology Magdalena Radwanska Department of Environmental Technology, Food Technology and Molecul Indicative price: € 0	5 ar Biotechnol	E,F logy	4	A:1	150
5 O000111	Plant Physiology Dong Hye Seo Department of Environmental Technology, Food Technology and Molecular Biotech Indicative price: € 0	5 Innology	E,F	4	A:2	125
3 2 3 Cour	se offer Incheon Global Campus Universities				5	credits

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.

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Programme related study costs

Type: Laptop

Name: Laptop

Indicative price: € 1,000

Optional: No

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: Free or paid by faculty

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: Free or paid by faculty

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 - 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

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 - 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.

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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.

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