

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 9

1 General Courses 120 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	O000132 English for Academic Studies 1 <i>Jonathan Ozelton -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>	5		1	A:1	150
2	O000133 General Biology <i>Hoo Sun Chung -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>	5		1	A:1	150
3	O000078 Inorganic Chemistry 1: Structure of Matter <i>Philippe Heynderickx -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>	5		1	A:1	150
4	O000185 Introduction to Engineering Mathematics <i>Joris Vankerschaver -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>	5		1	A:1	150
5	O000187 Physics 1: Mechanics, Motion, Energy and Momentum <i>Soebiakto Loekman -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>	5		1	A:1	150
6	O000131 English for Academic Studies 2 <i>Michael Dunne -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>	5		1	B:1, A:2	150
7	O000087 Inorganic Chemistry 2: Reactivity of Matter <i>Philippe Heynderickx -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>	5		1	A:2	150
8	O000155 Introduction to Biochemistry: Biomolecules <i>Mahta Mirzaei -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>	5		1	A:2	150
9	O000186 Mathematics 1: One-variable calculus and algebra <i>Shodhan Rao -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>	5		1	A:2	150
10	O000188 Physics 2: Vibration, Waves and Thermodynamics <i>Soebiakto Loekman -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>	5		1	A:2	150
11	O000096 Informatics <i>Wesley De Neve -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>	10		1	A:J	300
12	O000082 Organic Chemistry 1: Structure and Reactivity <i>Di Wu -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>	5		2	A:1	150
13	O000136 Chemical Analytical Methods <i>Jihae Park -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>	4		2	A:1	120
14	O000137 Plant Biology <i>Stephen Depuydt -- Department of Plant Biotechnology and Bioinformatics</i>	3		2	A:1	90
15	O000138 Animal Biology <i>Magdalena Radwanska -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>	3		2	A:1	75
16	O000156 Biochemistry: Metabolism <i>Stefan Magez -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>	4		2	A:1	120
17	O000083 Mathematics 2: Multivariable Calculus and Geometry <i>Shodhan Rao -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>	5		2	A:1	150
18	O000091 Physics 3: Electricity and Magnetism <i>Serge Zhuikov -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>	5		2	A:1	150
19	O000157 Microbiology <i>Magdalena Radwanska -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>	4		2	A:2	120
20	O000092 Organic Chemistry 2: Advanced Reactivity <i>Di Wu -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>	5		2	A:2	150

21	O000094	Physics 4: Optics and Physical and Chemical Thermodynamics	5	2	A:2	150
<i>Serge Zhuikov -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>						
22	O000088	Mathematics 3: Differential Equations	5	2	A:2	150
<i>Shodhan Rao -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>						
23	O000161	Environmental Chemistry and Technology: Concepts and Methods	4	2	A:2	120
<i>Jihae Park -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>						
24	O000159	Modern Aspects of Food	4	2	A:2	120
<i>Sam Van Haute -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>						
25	O000160	Molecular Biology: Concepts and Methods	4	2	A:2	120
<i>Magdalena Radwanska -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>						

2 General Courses 106 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	O000140 Process Engineering	5		3	A:1	150
<i>Philippe Heynderickx -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>						
2	O000141 Process Modelling and Control	5		3	A:1	150
<i>Shodhan Rao -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>						
3	O000100 Process Technology	5		3	A:1	150
<i>Frederik Ronsse -- Department of Green Chemistry and Technology</i>						
4	O000170 Green Chemistry and Biotechnology	5		3	A:1	150
<i>Di Wu -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>						
5	O000171 Air Treatment and Technology	5		3	A:1	150
<i>Philippe Heynderickx -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>						
6	O000189 Probability and Statistics	5		3	A:1	150
<i>Joris Vankerschaver -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>						
7	O000162 Scientific Research Writing	5		3	B:2, A:J	150
<i>Jonathan Ozeltan -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>						
8	O000024 Economics and Marketing	5		3	A:2	150
<i>Christine Yung Hung -- Department of Agricultural Economics</i>						
9	O000190 Introduction to Statistical Modelling	5		3	A:2	150
<i>Joris Vankerschaver -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>						
10	O000172 Waste Valorization	5		3	A:2	150
<i>Erik Meers -- Department of Green Chemistry and Technology</i>						
11	O000173 Remediation of Soil and Sediment	5		3	A:2	150
<i>Filip Tack -- Department of Green Chemistry and Technology</i>						
12	O000174 Water Treatment and Technology	5		3	A:2	150
<i>Xiaofei Wang -- Department of Biotechnology</i>						
13	I002853 Research-to-Business Case Studies	5		4	A:1	125
<i>Erik Meers -- Department of Green Chemistry and Technology</i>						
14	I002606 Environmental Risk Assessment	5		4	A:1	150
<i>Karel De Schampelaere -- Department of Animal Sciences and Aquatic Ecology</i>						
15	I002535 Applied Marine Ecology	3		4	A:1	90
<i>Colin Janssen -- Department of Animal Sciences and Aquatic Ecology</i>						
16	I002701 Clean Technology: Theory and Concepts	3		4	A:1	90
<i>Sophie Huysveld -- Department of Green Chemistry and Technology</i>						
17	O000163 Management, Entrepreneurship and Intellectual Property	4		4	A:2	108
<i>Benedikt Sas -- Department of Food Technology, Safety and Health</i>						
18	O000175 Environmental Law and Management	5		4	A:2	150
<i>Stijn Speelman -- Department of Agricultural Economics</i>						
19	O000176 Modelling and Data Analysis for Environmental Applications	3		4	A:2	90
<i>Philippe Heynderickx -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>						
20	O000177 Microbial Reuse Technology	3		4	A:2	90
<i>Alberte Requeira López -- Department of Biotechnology</i>						
21	O000164 Company Visits and Seminars	3		4	A:2	90
22	O000165 Bachelor's Project	12		4	A:J	360
<i>Michael Dunne -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>						

3 Elective Courses 14 credits

3.1 Programme-specific Elective Courses

9 credits

[Subscribe to 9 credit units from the following list.](#)

Nr	Course	CRDT	Ref	MT1	Session	Study
1	I002504 Applied Freshwater Ecology <i>Peter Goethals -- Department of Animal Sciences and Aquatic Ecology</i>	3		4	A:1	90
2	I002609 Environmental Microbiology <i>Nico Boon -- Department of Biotechnology</i>	3		4	A:1	90
3	I002702 Clean Technology: Assessment Methods <i>Sophie Huysveld -- Department of Green Chemistry and Technology</i>	3		4	A:1	90
4	I002752 Advanced Wastewater Treatment Process Design <i>Eveline Volcke -- Department of Green Chemistry and Technology</i>	3		4	A:1	90
5	I002776 Processes in Practice <i>Eveline Volcke -- Department of Green Chemistry and Technology</i>	3		4	A:1	90
6	I001439 Environmental Noise <i>Timothy Van Renterghem -- Department of Information Technology</i>	3		4	A:1	75
7	I002604 Oceans and Human Health <i>Jana Asselman -- Department of Animal Sciences and Aquatic Ecology</i>	3		4	A:1	90
8	I002170 Environmental Inventory Techniques <i>Kim Calders -- Department of Environment</i>	3		4	A:1	75

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

Nr	Course	CRDT	Ref	MT1	Session	Study
1	O000166 Personal Professional Development <i>Michael Dunne -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>	5		4	A:2	135

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	CRDT	Ref	MT1	Session	Study
1	O000168 Experimental Food Biochemistry <i>Mahta Mirzaei -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>	5	E,M	4	A:2	150
2	O000152 Food Microbiology and Preservation <i>Sam Van Haute -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>	5	E,M	4	A:2	150
3	O000180 Bioinformatics 2 <i>Zhen Li -- Department of Plant Biotechnology and Bioinformatics</i>	5	E,F	4	A:2	150
4	O000167 Reflection on Sustainable Development	5	ALL	4	A:2	125
5	O000050 Immunology <i>Stefan Magez -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>	5	E,F	4	A:1	150
6	O000111 Plant Physiology <i>Jonas De Saeger -- Department of Plant Biotechnology and Bioinformatics</i>	5	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.](#)

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 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 2023-2024	f: annually, from 2024-2025	i: annually, from 2025-2026
b: tri-annually	d: bi-annually, from 2023-2024	g: bi-annually, from 2024-2025	j: bi-annually, from 2025-2026
	e: tri-annually, from 2023-2024	h: tri-annually, from 2024-2025	k: tri-annually, from 2025-2026