

Study Programme

Academic year 2022-2023

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

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21 00	00094	Physics 4: Optics and Physical and Chemical Thermodynamics Serge Zhuiykov Department of Environmental Technology, Food Technology and Molecular Biotech	5 anology	2	A:2	150
22 O0	88000	Mathematics 3: Differential Equations Shodhan Rao Department of Environmental Technology, Food Technology and Molecular Biotechnology.	5 ology	2	A:2	150
23 00	00161	Environmental Chemistry and Technology: Concepts and Methods Jihae Park Department of Environmental Technology, Food Technology and Molecular Biotechnology	4 gy	2	A:2	120
24 00	00159	Modern Aspects of Food Sam Van Haute Department of Environmental Technology, Food Technology and Molecular Biotect	4 inology	2	A:2	120
25 O0	00160	Molecular Biology: Concepts and Methods Magdalena Radwanska Department of Environmental Technology, Food Technology and Molecular	4 r Biotechnology	2	A:2	120

4	General	Courses			106	credits
Nr	Course		CRDT Ref	MT1	Session	Study
1	O000140	Process Engineering Philippe Heynderickx Department of Environmental Technology, Food Technology and Molecular Bit	5 otechnology	3	A:1	150
2	O000141	Process Modelling and Control Shodhan Rao Department of Environmental Technology, Food Technology and Molecular Biotechnology	5 logy	3	A:1	150
3	O000100	Process Technology Frederik Ronsse Department of Green Chemistry and Technology	5	3	A:1	150
4	O000170	Green Chemistry and Biotechnology Di Wu Department of Environmental Technology, Food Technology and Molecular Biotechnology	5	3	A:1	150
5	O000171	Air Treatment and Technology Philippe Heynderickx Department of Environmental Technology, Food Technology and Molecular Bi	5 otechnology	3	A:1	150
6	O000189	Probability and Statistics Joris Vankerschaver Department of Environmental Technology, Food Technology and Molecular Bio	5 technology	3	A:1	150
7	O000162	Scientific Research Writing Jonathan Ozelton Department of Environmental Technology, Food Technology and Molecular Biote	5 chnology	3	B:2, A:J	150
8	O000024	Economics and Marketing Christine Yung Hung Department of Agricultural Economics	5	3	A:2	150
9	O000190	Introduction to Statistical Modelling Joris Vankerschaver Department of Environmental Technology, Food Technology and Molecular Bio	5 technology	3	A:2	150
10	O000172	Waste Valorization Erik Meers Department of Green Chemistry and Technology	5	3	A:2	150
11	O000173	Remediation of Soil and Sediment Filip Tack Department of Green Chemistry and Technology	5	3	A:2	150
12	O000174	Water Treatment and Technology Xiaofei Wang Department of Biotechnology	5	3	A:2	150
13	1002853	Research-to-Business Case Studies Erik Meers Department of Green Chemistry and Technology	5	4	A:1	125
14	1002606	Environmental Risk Assessment Karel De Schamphelaere Department of Animal Sciences and Aquatic Ecology	5	4	A:1	150
15	1002535	Applied Marine Ecology Colin Janssen Department of Animal Sciences and Aquatic Ecology	3	4	A:1	90
16	1002701	Clean Technology: Theory and Concepts Sophie Huysveld Department of Green Chemistry and Technology	3	4	A:1	90
17	O000163	Management, Entrepreneurship and Intellectual Property Benedikt Sas Department of Food Technology, Safety and Health	4	4	A:2	108
18	O000175	Environmental Law and Management Stijn Speelman Department of Agricultural Economics	5	4	A:2	150
19	O000176	Modelling and Data Analysis for Environmental Applications Philippe Heynderickx Department of Environmental Technology, Food Technology and Molecular Bia	3 Totechnology	4	A:2	90
20	O000177	Microbial Reuse Technology Alberte Regueira López Department of Biotechnology	3	4	A:2	90
21	O000164	Company Visits and Seminars Michael Dunne Department of Environmental Technology, Food Technology and Molecular Biotechn	3 nology	4	A:2	90
22	O000165	Bachelor's Project Michael Dunne Department of Environmental Technology, Food Technology and Molecular Biotechn	12	4	A:J	360

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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	1002504	Applied Freshwater Ecology Peter Goethals Department of Animal Sciences and Aquatic Ecology	3	4	A:1	90
2	1002609	Environmental Microbiology Nico Boon Department of Biotechnology	3	4	A:1	90
3	1002702	Clean Technology: Assessment Methods Sophie Huysveld Department of Green Chemistry and Technology	3	4	A:1	90
4	1002752	Advanced Wastewater Treatment Process Design Eveline Volcke Department of Green Chemistry and Technology	3	4	A:1	90
5	1002776	Processes in Practice Eveline Volcke Department of Green Chemistry and Technology	3	4	A:1	90
6	1001439	Environmental Noise Timothy Van Renterghem Department of Information Technology	3	4	A:1	75
7	1002604	Oceans and Human Health Jana Asselman Department of Animal Sciences and Aquatic Ecology	3	4	A:1	90
8	1002170	Environmental Inventory Techniques Kim Calders Department of Environment	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

Ν	lr Course		CRDT	Ref	MT1	Session	Study
1	O000166	Personal Professional Development	5		4	A:2	135
		Michael Dunne Department of Environmental Technology, Food Technology and Molecular Biote	chnology				

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			CRDI	Ref	MI1	Session	Study
1	O000168	Experimental Food Biochemistry Mahta Mirzaei Department of Environmental Technology, Food Technology and Molecular Biotec	5 chnology	E,M	4	A:2	150
2	O000152	Food Microbiology and Preservation Sam Van Haute Department of Environmental Technology, Food Technology and Molecular Biote	5 echnology	E,M	4	A:2	150
3	O000180	Bioinformatics 2 Zhen Li Department of Plant Biotechnology and Bioinformatics	5	E,F	4	A:2	150
4	O000167	Reflection on Sustainable Development	5	ALL	4	A:2	125
5	O000050	Immunology Stefan Magez Department of Environmental Technology, Food Technology and Molecular Biotec	5 hnology	E,F	4	A:1	150
6	O000111	Plant Physiology Jonas De Saeger Department of Plant Biotechnology and Bioinformatics	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.

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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 it: Italian ru: Russian da: Danish en: English 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:

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

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