

Global Campus South Korea

Bachelor of Science in Environmental Technology

Campus: Incheon

Language(s) of instruction: English (Programme sheet as of: 2021)

Programme version 8 Valid as from the academic year 2021-2022 (GOEDGEKEURD)

## 1 General Courses - OBTECH\_alg 120.0 credits

Nr	Course	CRDT	Ref	MT1	MT2	Session	Contact	Study
1	O000132 English for Academic Studies 1 [en] Jonathan Ozelton -- Department of Environmental Technology, Food Technology and Molecular Biotechnology	5.0		1		A:1	60.0	150
2	O000133 General Biology [en] Hoo Sun Chung -- Department of Environmental Technology, Food Technology and Molecular Biotechnology	5.0		1		A:1	60.0	150
3	O000078 Inorganic Chemistry 1: Structure of Matter [en] Francis Verpoort -- Department of Environmental Technology, Food Technology and Molecular Biotechnology	5.0		1		A:1	60.0	150
4	O000131 English for Academic Studies 2 [en] Michael Dunne -- Department of Environmental Technology, Food Technology and Molecular Biotechnology	5.0		1		A:2, B:1	60.0	150
5	O000087 Inorganic Chemistry 2: Reactivity of Matter [en] Francis Verpoort -- Department of Environmental Technology, Food Technology and Molecular Biotechnology	5.0		1		A:2	60.0	150
6	O000155 Introduction to Biochemistry: Biomolecules [en] Sam Van Haute -- Department of Environmental Technology, Food Technology and Molecular Biotechnology	5.0		1		A:2	60.0	150
7	O000095 Mathematics 1: Engineering Mathematics [en] Shodhan Rao -- Department of Environmental Technology, Food Technology and Molecular Biotechnology	10.0		1		A:J	120.0	300
8	O000134 Physics 1 and 2: Mechanics, Vibration, Waves and Thermodynamics [en] Soebiakto Loekman -- Department of Environmental Technology, Food Technology and Molecular Biotechnology	10.0		1		A:J	120.0	300
9	O000096 Informatics [en] Wesley De Neve -- Department of Environmental Technology, Food Technology and Molecular Biotechnology	10.0		1		A:J	120.0	300
10	O000082 Organic Chemistry 1: Structure and Reactivity [en] Di Wu -- Department of Environmental Technology, Food Technology and Molecular Biotechnology	5.0		2		A:1	60.0	150
11	O000136 Chemical Analytical Methods [en] Tanja Cirkovic Velickovic -- Department of Environmental Technology, Food Technology and Molecular Biotechnology	4.0		2		A:1	60.0	120
12	O000137 Plant Biology [en] Stephen Depuydt -- Department of Plant Biotechnology and Bioinformatics	3.0		2		A:1	30.0	90
13	O000138 Animal Biology [en] Magdalena Radwanska -- Department of Environmental Technology, Food Technology and Molecular Biotechnology	3.0		2		A:1	30.0	75
14	O000156 Biochemistry: Metabolism [en] Stefan Magez -- Department of Environmental Technology, Food Technology and Molecular Biotechnology	4.0		2		A:1	45.0	120
15	O000083 Mathematics 2: Multivariable Calculus and Geometry [en] Shodhan Rao -- Department of Environmental Technology, Food Technology and Molecular Biotechnology	5.0		2		A:1	60.0	150
16	O000091 Physics 3: Electricity and Magnetism [en] Serge Zhuiykov -- Department of Environmental Technology, Food Technology and Molecular Biotechnology	5.0		2		A:1	60.0	150
17	O000157 Microbiology [en] Magdalena Radwanska -- Department of Molecular Biology	4.0		2		A:2	45.0	120
18	O000092 Organic Chemistry 2: Advanced Reactivity [en] Di Wu -- Department of Environmental Technology, Food Technology and Molecular Biotechnology	5.0		2		A:2	60.0	150
19	O000094 Physics 4: Optics and Physical and Chemical Thermodynamics [en] Serge Zhuiykov -- Department of Environmental Technology, Food Technology and Molecular Biotechnology	5.0		2		A:2	60.0	150
20	O000088 Mathematics 3: Differential Equations [en] Shodhan Rao -- Department of Environmental Technology, Food Technology and Molecular Biotechnology	5.0		2		A:2	60.0	150
21	O000161 Environmental Chemistry and Technology: Concepts and Methods [en] Philippe Heynderickx -- Department of Environmental Technology, Food Technology and Molecular Biotechnology	4.0		2		A:2	45.0	120
22	O000159 Modern Aspects of Food [en] Sam Van Haute -- Department of Environmental Technology, Food Technology and Molecular Biotechnology	4.0		2		A:2	45.0	120

23	O000160	Molecular Biology: Concepts and Methods [en] Magdalena Radwanska -- Department of Molecular Biology	4.0		2		A:2	45.0	120
----	---------	--	-----	--	---	--	-----	------	-----

## 2 General Courses - OBENTE\_alg

106.0 credits

Nr	Course	CRDT	Ref	MT1	MT2	Session	Contact	Study
1	O000140 Process Engineering [en] Philippe Heynderickx -- Department of Environmental Technology, Food Technology and Molecular Biotechnology	5.0		3		A:1	60.0	150
2	O000141 Process Modelling and Control [en] Shodhan Rao -- Department of Environmental Technology, Food Technology and Molecular Biotechnology	5.0		3		A:1	60.0	150
3	O000100 Process Technology [en] Frederik Ronse -- Department of Green Chemistry and Technology	5.0		3		A:1	45.0	150
4	O000170 Green Chemistry and Biotechnology [en] Francis Verpoort -- Department of Environmental Technology, Food Technology and Molecular Biotechnology	5.0		3		A:1	60.0	150
5	O000171 Air Treatment and Technology [en] Philippe Heynderickx -- Department of Environmental Technology, Food Technology and Molecular Biotechnology	5.0		3		A:1	60.0	150
6	O000139 Probability and Statistics [en] Joris Vankerschaver -- Department of Environmental Technology, Food Technology and Molecular Biotechnology	10.0		3		A:J	100.0	250
7	O000162 Scientific Research Writing [en] Michael Dunne -- Department of Environmental Technology, Food Technology and Molecular Biotechnology	5.0		3		B:2, A:J	50.0	150
8	O000024 Economics and Marketing [en] Yung Hung -- Department of Agricultural Economics	5.0		3		A:2	60.0	150
9	O000172 Waste Valorization [en] Erik Meers -- Department of Green Chemistry and Technology	5.0		3		A:2	50.0	150
10	O000173 Remediation of Soil and Sediment [en] Filip Tack -- Department of Green Chemistry and Technology	5.0		3		A:2	60.0	150
11	O000174 Water Treatment and Technology [en] Korneel Rabaey -- Department of Biotechnology	5.0		3		A:2	50.0	150
12	I002853 Research-to-Business Case Studies [en] Erik Meers -- Department of Green Chemistry and Technology	5.0		4		A:1	40.0	125
13	I002606 Environmental Risk Assessment [en] Karel De Schampelaere -- Department of Animal Sciences and Aquatic Ecology	5.0		4		A:1	50.0	150
14	I002535 Applied Marine Ecology [en] Colin Janssen -- Department of Animal Sciences and Aquatic Ecology	3.0		4		A:1	30.0	90
15	I002701 Clean Technology: Theory and Concepts [en] Pieter Nachtergaele -- Department of Green Chemistry and Technology	3.0		4		A:1	30.0	90
16	O000163 Management, Entrepreneurship and Intellectual Property [en] Benedikt Sas -- Department of Food Technology, Safety and Health	4.0		4		A:2	48.0	108
17	O000175 Environmental Law and Management [en] Stijn Speelman -- Department of Agricultural Economics	5.0		4		A:2	50.0	150
18	O000176 Modelling and Data Analysis for Environmental Applications [en] Philippe Heynderickx -- Department of Environmental Technology, Food Technology and Molecular Biotechnology	3.0		4		A:2	36.0	90
19	O000177 Microbial Reuse Technology [en] Korneel Rabaey -- Department of Biotechnology	3.0		4		A:2	30.0	90
20	O000164 Company Visits and Seminars [en] Michael Dunne -- Department of Environmental Technology, Food Technology and Molecular Biotechnology	3.0		4		A:2(2022)	20.0	90
21	O000165 Bachelor's Project [en] Michael Dunne -- Department of Environmental Technology, Food Technology and Molecular Biotechnology	12.0		4		A:J	90.0	360

## 3 Elective Courses - OBENTE\_keuze

14.0 credits

### 3.1 Programme-specific Elective Courses - OBENTE\_keuzeDomein

9.0 credits

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

Nr	Course	CRDT	Ref	MT1	MT2	Session	Contact	Study
1	I002504 Applied Freshwater Ecology [en] Peter Goethals -- Department of Animal Sciences and Aquatic Ecology	3.0		4		A:1	30.0	90
2	I002609 Environmental Microbiology [en] Karel Folens -- Department of Biotechnology	3.0		4		A:1	30.0	90
3	I002702 Clean Technology: Assessment Methods [en] Pieter Nachtergaele -- Department of Green Chemistry and Technology	3.0		4		A:1	30.0	90
4	I002752 Advanced Wastewater Treatment Process Design [en] Eveline Volcke -- Department of Green Chemistry and Technology	3.0		4		A:1	30.0	90
5	I002776 Processes in Practice [en] Eveline Volcke -- Department of Green Chemistry and Technology	3.0		4		A:1	30.0	90

6	I001439	Environmental Noise [en] Timothy Van Renterghem -- Department of Information Technology	3.0	4	A:1	30.0	75
7	I002604	Oceans and Human Health [en] Jana Asselman -- Department of Animal Sciences and Aquatic Ecology	3.0	4	A:1	30.0	90
8	I002170	Environmental Inventory Techniques [en] Ellen Van De Vijver -- Department of Environment	3.0	4	A:1	30.0	75

### 3.2 Personal Professional Development elective module - OBPPD\_keuze 5.0 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 - OBPPD\_keuzePPD 5.0 credits

Nr	Course	CRDT	Ref	MT1	MT2	Session	Contact	Study
1	O000166 Personal Professional Development [en] Michael Dunne -- Department of Environmental Technology, Food Technology and Molecular Biotechnology	5.0		4		A:2	45.0	135

#### 3.2.2 Course offer GUGC-UGent - OBPPD\_keuzeGUGC-UG 5.0 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	MT2	Session	Contact	Study
1	O000168 Experimental Food Biochemistry [en]	5.0	E,M	4		A:2	60.0	150
2	O000152 Food Microbiology and Preservation [en] Mieke Uyttendaele -- Department of Food Technology, Safety and Health	5.0	E,M	4		A:2	60.0	150
3	O000167 Reflection on Sustainable Development [en] Stephen Depuydt -- Department of Plant Biotechnology and Bioinformatics	5.0	ALL	4		A:2	25.0	125
4	O000050 Immunology [en] Stefan Magez -- Department of Environmental Technology, Food Technology and Molecular Biotechnology	5.0	E,F	4		A:1	45.0	150
5	O000111 Plant Physiology [en] Stephen Depuydt -- Department of Plant Biotechnology and Bioinformatics	5.0	E,F	4		A:2	50.0	125

#### 3.2.3 Course offer Incheon Global Campus Universities - OBPPD\_keuzeIGC 5.0 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 - OBPPD\_keuzeKU 5.0 credits

Subscribe to 5 credit units from courses offered at Korean partner universities.  
Subject to approval by the Curriculum Committee.