

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 7

1 General Courses 124 credits

| Nr | Course | CRDT | Ref | MT1 | Session | Study |
|----|--|------|-----|-----|----------|-------|
| 1 | O000132 English for Academic Studies 1 <i>Michael Dunne -- 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 | B:2, A:1 | 150 |
| 3 | O000078 Inorganic Chemistry 1: Structure of Matter <i>Francis Verpoort -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i> | 5 | | 1 | A:1 | 150 |
| 4 | 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 |
| 5 | O000087 Inorganic Chemistry 2: Reactivity of Matter <i>Francis Verpoort -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i> | 5 | | 1 | A:2 | 150 |
| 6 | O000155 Introduction to Biochemistry: Biomolecules <i>Sam Van Haute -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i> | 5 | | 1 | B:1, A:2 | 150 |
| 7 | O000095 Mathematics 1: Engineering Mathematics <i>Shodhan Rao -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i> | 10 | | 1 | A:J | 300 |
| 8 | O000134 Physics 1 and 2: Mechanics, Vibration, Waves and Thermodynamics <i>Soebiakto Loekman -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i> | 10 | | 1 | A:J | 300 |
| 9 | O000096 Informatics <i>Wesley De Neve -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i> | 10 | | 1 | A:J | 300 |
| 10 | O000082 Organic Chemistry 1: Structure and Reactivity <i>Philippe Heynderickx -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i> | 5 | | 2 | A:1 | 150 |
| 11 | O000136 Chemical Analytical Methods <i>Tanja Cirkovic Velickovic -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i> | 4 | | 2 | A:1 | 120 |
| 12 | O000137 Plant Biology <i>Stephen Depuydt -- Department of Plant Biotechnology and Bioinformatics</i> | 3 | | 2 | A:1 | 90 |
| 13 | O000138 Animal Biology <i>Magdalena Radwanska -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i> | 3 | | 2 | A:1 | 75 |
| 14 | O000156 Biochemistry: Metabolism <i>Stefan Magez -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i> | 4 | | 2 | A:1 | 120 |
| 15 | 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 |
| 16 | O000091 Physics 3: Electricity and Magnetism <i>Serge Zhuiykov -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i> | 5 | | 2 | A:1 | 150 |
| 17 | O000157 Microbiology <i>Magdalena Radwanska -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i> | 4 | | 2 | A:2 | 120 |
| 18 | O000092 Organic Chemistry 2: Advanced Reactivity <i>Philippe Heynderickx -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i> | 5 | | 2 | A:2 | 150 |
| 19 | O000094 Physics 4: Optics and Physical and Chemical Thermodynamics <i>Serge Zhuiykov -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i> | 5 | | 2 | A:2 | 150 |
| 20 | O000088 Mathematics 3: Differential Equations <i>Shodhan Rao -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i> | 5 | | 2 | A:2 | 150 |

| | | | | | | |
|----|---------|--|---|---|-----|-----|
| 21 | O000158 | Environmental Chemistry <i>Philippe Heynderickx -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i> | 4 | 2 | A:2 | 120 |
| 22 | O000159 | Modern Aspects of Food <i>Sam Van Haute -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i> | 4 | 2 | A:2 | 120 |
| 23 | O000160 | Molecular Biology: Concepts and Methods <i>Magdalena Radwanska -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i> | 4 | 2 | A:2 | 120 |
| 24 | O000161 | Environmental Chemistry and Technology: Concepts and Methods | 4 | 2 | | 120 |

2 General Courses

120 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

| Nr | Course | CRDT | Ref | MT1 | Session | Study |
|----|---|------|-----|-----|---------|-------|
| 1 | O000140 Process Engineering <i>Philippe Heynderickx -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i> | 5 | | 3 | A:1 | 150 |
| 2 | O000141 Process Modelling and Control <i>Shodhan Rao -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i> | 5 | | 3 | A:1 | 150 |
| 3 | O000100 Process Technology <i>Frederik Ronsse -- Department of Green Chemistry and Technology</i> | 5 | | 3 | A:1 | 150 |
| 4 | O000142 Green Chemistry and Technology <i>Francis Verpoort -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i> | 5 | | 3 | A:1 | 150 |
| 5 | O000102 Exhaust Gas Treatment <i>Serge Zhuikov -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i> | 5 | | 3 | A:1 | 150 |
| 6 | O000139 Probability and Statistics <i>Arnout Van Messem -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i> | 10 | | 3 | A:J | 250 |
| 7 | O000120 Company Visits and Scientific Seminars <i>Michael Dunne -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i> | 10 | | 3 | A:J | 250 |
| 8 | O000024 Economics and Marketing <i>Christine Yung Hung -- Department of Agricultural Economics</i> | 5 | | 3 | A:2 | 150 |
| 9 | O000110 Environmental Soil Science <i>Filip Tack -- Department of Green Chemistry and Technology</i> | 5 | | 3 | A:2 | 150 |
| 10 | O000109 Water Treatment <i>Korneel Rabaey -- Department of Biotechnology</i> | 5 | | 3 | A:2 | 150 |
| 11 | I002412 Case Studies and Company Visits <i>Erik Meers -- Department of Green Chemistry and Technology</i> | 5 | | 4 | A:1 | 125 |
| 12 | I002537 Basic and Applied Freshwater Ecology <i>Wout Van Echelpoel -- Department of Animal Sciences and Aquatic Ecology</i> | 5 | | 4 | A:1 | 150 |
| 13 | I002606 Environmental Risk Assessment <i>Karel De Schampelaere -- Department of Animal Sciences and Aquatic Ecology</i> | 5 | | 4 | A:1 | 150 |
| 14 | I002404 Soil Remediation <i>Filip Tack -- Department of Green Chemistry and Technology</i> | 5 | | 4 | A:1 | 150 |
| 15 | I002700 Clean Technology <i>Sophie Huysveld -- Department of Green Chemistry and Technology</i> | 5 | | 4 | A:1 | 150 |
| 16 | I001522 Environmental Constructions <i>Eveline Volcke -- Department of Green Chemistry and Technology</i> | 5 | | 4 | A:1 | 135 |
| 17 | O000154 Research Methodology and Project <i>Michael Dunne -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i> | 20 | | 4 | A:J | 500 |
| 18 | O000151 Project Management, Entrepreneurship and Intellectual Property <i>Benedikt Sas -- Department of Food Technology, Safety and Health</i> | 4 | | 4 | A:2 | 108 |
| 19 | O000147 Renewable Resource Technology <i>Korneel Rabaey -- Department of Biotechnology</i> | 3 | | 4 | A:2 | 90 |
| 20 | O000148 Environment Law and Management <i>Stijn Speelman -- Department of Agricultural Economics</i> | 3 | | 4 | A:2 | 90 |

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 2021-2022 | f: annually, from 2022-2023 | i: annually, from 2023-2024 |
| b: tri-annually | d: bi-annually, from 2021-2022 | g: bi-annually, from 2022-2023 | j: bi-annually, from 2023-2024 |
| | e: tri-annually, from 2021-2022 | h: tri-annually, from 2022-2023 | k: tri-annually, from 2023-2024 |