



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

## Bachelor of Science in Food 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<br><i>Jonathan Ozelton -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>                     | 5    | 1   | A:1      | 150     |             |
| 2                 | O000133 General Biology<br><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<br><i>Philippe Heynderickx -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>     | 5    | 1   | A:1      | 150     |             |
| 4                 | O000185 Introduction to Engineering Mathematics<br><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<br><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<br><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<br><i>Philippe Heynderickx -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>    | 5    | 1   | A:2      | 150     |             |
| 8                 | O000155 Introduction to Biochemistry: Biomolecules<br><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<br><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<br><i>Soebiakto Loekman -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>    | 5    | 1   | A:2      | 150     |             |
| 11                | O000096 Informatics<br><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<br><i>Di Wu -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>                 | 5    | 2   | A:1      | 150     |             |
| 13                | O000136 Chemical Analytical Methods<br><i>Jihae Park -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>                              | 4    | 2   | A:1      | 120     |             |
| 14                | O000137 Plant Biology<br><i>Dong Hye Seo -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>  | 3    | 2   | A:1      | 90      |             |
| 15                | O000138 Animal Biology<br><i>Robin Guevarra -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>                                       | 3    | 2   | A:1      | 75      |             |
| 16                | O000156 Biochemistry: Metabolism<br><i>Dongik Park -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>                                | 4    | 2   | A:1      | 120     |             |
| 17                | O000083 Mathematics 2: Multivariable Calculus and Geometry<br><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<br><i>Serge Zhuiykov -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>                 | 5    | 2   | A:1      | 150     |             |
| 19                | O000157 Microbiology<br><i>Di Wu -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>  | 4    | 2   | A:2      | 120     |             |
| 20                | O000092 Organic Chemistry 2: Advanced Reactivity<br><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 Zhuiykov -- 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 |

## 2 General Courses

115 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  | 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  | O000103 | Food Chemistry   | 5    | 3   |     | A:1     | 150   |
|    |         | <i>Mahta Mirzaei -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>        |      |     |     |         |       |
| 5  | O000104 | Food Technology  | 5    | 3   |     | A:1     | 150   |
|    |         | <i>Sam Van Haute -- 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   |     | A:J     | 150   |
|    |         | <i>Jonathan Ozelton -- 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 | O000168 | Experimental Food Biochemistry   | 5    | 3   |     | A:2     | 150   |
|    |         | <i>Mahta Mirzaei -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>        |      |     |     |         |       |
| 11 | O000152 | Food Microbiology and Preservation   | 5    | 3   |     | A:2     | 150   |
|    |         | <i>Sam Van Haute -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>        |      |     |     |         |       |
| 12 | O000169 | Technology of Plant-Based Products   | 5    | 3   |     | A:2     | 150   |
|    |         | <i>Mahta Mirzaei -- Department of Environmental Technology, Food Technology and Molecular 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 | I003056 | Human Nutrition and Health   | 5    | 4   |     | A:1     | 150   |
|    |         | <i>John Van Camp -- Department of Food Technology, Safety and Health</i>   |      |     |     |         |       |
| 15 | I002758 | Food Marketing and Consumer Behaviour  | 4    | 4   |     | B:1     | 120   |
|    |         | <i>Wim Verbeke -- Department of Agricultural Economics</i>   |      |     |     |         |       |
| 16 | I002415 | Food Safety and Risk Analysis  | 5    | 4   |     | A:1     | 125   |
|    |         | <i>Liesbeth Jacxsens -- Department of Food Technology, Safety and Health</i>                                       |      |     |     |         |       |
| 17 | I002764 | Milk and Dairy Technology  | 4    | 4   |     | A:1     | 120   |
|    |         | <i>Koen Dewettinck -- Department of Food Technology, Safety and Health</i>   |      |     |     |         |       |
| 18 | I002755 | Meat Science and Technology  | 4    | 4   |     | A:1     | 120   |
|    |         | <i>Stefaan De Smet -- Department of Animal Sciences and Aquatic Ecology</i>  |      |     |     |         |       |
| 19 | I001084 | Technology of Fishery Products   | 3    | 4   |     | A:1     | 75    |
|    |         | <i>Frank Devlieghere -- Department of Food Technology, Safety and Health</i>                                       |      |     |     |         |       |
| 20 | O000163 | Management, Entrepreneurship and Intellectual Property   | 4    | 4   |     | A:2     | 108   |
|    |         | <i>Benedikt Sas -- Department of Food Technology, Safety and Health</i>  |      |     |     |         |       |
| 21 | O000144 | Food Legislation   | 3    | 4   |     | A:2     | 75    |
|    |         | <i>Chang Won Park -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>       |      |     |     |         |       |
| 22 | O000149 | Quality Management Systems in Agro-food Chain  | 3    | 4   |     | A:2     | 90    |
|    |         | <i>Liesbeth Jacxsens -- Department of Food Technology, Safety and Health</i>                                       |      |     |     |         |       |

|    |         |  |    |   |     |     |
|----|---------|--|----|---|-----|-----|
| 23 | O000164 | Company Visits and Seminars<br><i>Michael Dunne -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i> | 3  | 4 | A:2 | 90  |
| 24 | O000165 | Bachelor's Project<br><i>Michael Dunne -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>          | 12 | 4 | A:J | 360 |

### 3 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.

#### 3.1 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<br><i>Michael Dunne -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i> | 5    |     | 4   | A:2     | 135   |
| 2  | O000191 Intercultural Communication: Concepts and Skills<br><i>Mara Santi -- Department of Literary Studies</i>  | 3    |     | 4   | A:2     | 90    |
| 3  | O000192 Intercultural Communication: Leadership and Professional Competencies<br><i>Mara Santi -- Department of Literary Studies</i>                     | 3    |     | 4   | A:2     | 75    |

#### 3.2 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<br><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<br><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<br><i>Zhen Li -- Department of Plant Biotechnology and Bioinformatics</i>  | 5    | E,F | 4   | A:2     | 150   |
| 4  | O000050 Immunology<br><i>Syeon Park -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>                            | 5    | E,F | 4   | A:1     | 150   |
| 5  | O000111 Plant Physiology<br><i>Dong Hye Seo -- Department of Environmental Technology, Food Technology and Molecular Biotechnology</i>                    | 5    | E,F | 4   | A:2     | 125   |

#### 3.3 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.

#### 3.4 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 2026-2027     | f: annually, from 2027-2028     | i: annually, from 2028-2029     |
| b: tri-annually | d: bi-annually, from 2026-2027  | g: bi-annually, from 2027-2028  | j: bi-annually, from 2028-2029  |
|                 | e: tri-annually, from 2026-2027 | h: tri-annually, from 2027-2028 | k: tri-annually, from 2028-2029 |