

Faculty of Bioscience Engineering

Bachelor of Science in Bioindustrial Sciences

Campus: Courtray

Language of instruction: Dutch

Programme version 8

1 General Courses

176 credits

| Nr | Course | CRDT | Ref | MT1 | Session | Study |
|----|--|------|-----|-----|---------|-------|
| 1 | I610018 Mathematics I <i>Jan Baetens -- Department of Data Analysis and Mathematical Modelling</i> | 6 | | 1 | A:1 | 180 |
| 2 | E610013 Mechanics <i>Michael Monte -- Department of Electromechanical, Systems and Metal Engineering</i> | 6 | | 1 | A:J | 180 |
| 3 | E610014 Electricity <i>Kurt Stockman -- Department of Electromechanical, Systems and Metal Engineering</i> | 6 | | 1 | A:1 | 180 |
| 4 | E610019 Materials <i>Geert De Clercq -- Department of Materials, Textiles and Chemical Engineering</i> | 3 | | 1 | A:1 | 90 |
| 5 | I610008 General Chemistry | 6 | | 1 | | 180 |
| 6 | I610020 Microbiology | 6 | | 1 | | 180 |
| 7 | I610019 Mathematics II <i>Jan Baetens -- Department of Data Analysis and Mathematical Modelling</i> | 6 | | 1 | A:2 | 180 |
| 8 | E610016 Physics <i>Michael Monte -- Department of Electromechanical, Systems and Metal Engineering</i> | 5 | | 1 | B:2 | 150 |
| 9 | E610055 Electronics <i>Sam Lemey -- Department of Information Technology</i> | 3 | | 1 | A:2 | 90 |
| 10 | I610022 Organic Chemistry I | 5 | | 1 | | 150 |
| 11 | I610023 Analytical Chemistry | 5 | | 1 | | 150 |
| 12 | I610021 Technology for Circular Economy | 3 | | 1 | | 90 |
| 13 | I620015 Statistical Data Analysis and Experimental Design <i>Stijn Van Hulle -- Department of Green Chemistry and Technology</i> | 6 | | 2 | A:1 | 180 |
| 14 | I620034 Programming <i>Jan Verwaeren -- Department of Data Analysis and Mathematical Modelling</i> | 3 | | 2 | A:1 | 90 |
| 15 | E620032 Applied Fluid Mechanics and Thermodynamics <i>Michel De Paepe -- Department of Electromechanical, Systems and Metal Engineering</i> | 6 | | 2 | A:1 | 180 |
| 16 | I620030 Organic Chemistry II | 6 | | 2 | A:1 | 180 |
| 17 | I620017 Spectroscopic Analysis | 3 | | 2 | A:1 | 90 |
| 18 | I620028 Biological Raw Materials <i>Stefaan Werbrouck -- Department of Plants and Crops</i> | 6 | | 2 | A:1 | 180 |
| 19 | I630019 Biometrics <i>Stijn Luca -- Department of Data Analysis and Mathematical Modelling</i> | 3 | | 2 | A:2 | 90 |
| 20 | I620033 Thermal Engineering <i>Joël Hogie -- Department of Green Chemistry and Technology</i> | 4 | | 2 | A:2 | 120 |
| 21 | I620032 Smart Sensors <i>Pieter Nachtergaele -- Department of Green Chemistry and Technology</i> | 6 | | 2 | A:2 | 180 |
| 22 | I620031 Physico-Chemistry <i>Stijn Van Hulle -- Department of Green Chemistry and Technology</i> | 6 | | 2 | A:2 | 180 |
| 23 | I620029 Chromatographic Techniques | 5 | | 2 | A:2 | 150 |
| 24 | I610012 Biochemistry <i>Christophe Wille -- Department of Food Technology, Safety and Health</i> | 6 | | 2 | A:2 | 180 |

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|----|---------|--|---|---|-----|-----|
| 25 | I630063 | Circular Water Technology <i>Stijn Van Hulle -- Department of Green Chemistry and Technology</i> | 5 | 3 | A:1 | 150 |
| 26 | I630045 | Chemical Engineering <i>Steven De Meester -- Department of Green Chemistry and Technology</i> | 7 | 3 | A:1 | 180 |
| 27 | I630064 | Process Control <i>Pieter Nachtergaele -- Department of Green Chemistry and Technology</i> | 5 | 3 | A:1 | 150 |
| 28 | I630067 | Sustainable Materials <i>Steven De Meester -- Department of Green Chemistry and Technology</i> | 5 | 3 | A:1 | 150 |
| 29 | I640043 | Sustainability Assessment <i>Steven De Meester -- Department of Green Chemistry and Technology</i> | 3 | 3 | A:1 | 90 |
| 30 | I630065 | Resource Recovery <i>Stijn Van Hulle -- Department of Green Chemistry and Technology</i> | 6 | 3 | A:2 | 180 |
| 31 | I630051 | Biochemical Engineering <i>Katleen Raes -- Department of Food Technology, Safety and Health</i> | 6 | 3 | A:2 | 180 |
| 32 | I630068 | Sustainable Energy <i>Jeroen De Kooning -- Department of Electromechanical, Systems and Metal Engineering</i> | 4 | 3 | A:2 | 120 |
| 33 | E620702 | Business Administration <i>Sofie Verbrugge -- Department of Industrial Systems Engineering and Product Design</i> | 3 | 3 | A:2 | 90 |
| 34 | I630066 | Entrepreneurship in the Circular Economy <i>Imca Sampers -- Department of Food Technology, Safety and Health</i> | 3 | 3 | A:2 | 90 |
| 35 | I630062 | Portfolio Internationalisation <i>Diederik Rousseau -- Department of Green Chemistry and Technology</i> | 3 | 3 | A:J | 90 |
| 36 | I630056 | Bachelor Thesis <i>Diederik Rousseau -- Department of Green Chemistry and Technology</i> | 6 | 3 | B:J | 180 |

2 Elective Courses

4 credits

Subscribe to 4 credit units from the Ghent University study programmes, including the Ghent University Elective Courses, distributed over the first standard learning path as follows: 4 credit units in year 3. Subject to approval by the faculty.
[Ghent University Elective Courses](#)

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 2027-2028 | f: annually, from 2028-2029 | i: annually, from 2029-2030 |
| b: tri-annually | d: bi-annually, from 2027-2028 | g: bi-annually, from 2028-2029 | j: bi-annually, from 2029-2030 |
| | e: tri-annually, from 2027-2028 | h: tri-annually, from 2028-2029 | k: tri-annually, from 2029-2030 |