

Faculty of Bioscience Engineering

Linking Course Master of Science in Bioindustrial Sciences: Circular Bioprocessstechnology

Campus: Courtray

Language of instruction: Dutch

Programme version 5

## 1 General Courses 40 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	I620034 Programming <i>Jan Verwaeren -- Department of Data Analysis and Mathematical Modelling</i>	3		1	A:1	90
3	E620032 Applied Fluid Mechanics and Thermodynamics <i>Michel De Paepe -- Department of Electromechanical, Systems and Metal Engineering</i>	6		1	A:1	180
4	I640043 Sustainability Assessment <i>Steven De Meester -- Department of Green Chemistry and Technology</i>	3		1	A:1	90
5	I610019 Mathematics II <i>Jan Baetens -- Department of Data Analysis and Mathematical Modelling</i>	6		1	A:2	180
6	E610055 Electronics <i>Sam Lemey -- Department of Information Technology</i>	3		1	A:2	90
7	I620033 Thermal Engineering <i>Joël Hogie -- Department of Green Chemistry and Technology</i>	4		1	A:2	120
8	I620032 Smart Sensors <i>Sergei Gusev -- Department of Green Chemistry and Technology</i>	6		1	A:2	180
9	I630061 Methodology <i>Diederik Rousseau -- Department of Green Chemistry and Technology</i>	3		1	A:2	90

## 2 General Courses

### 2.1 20 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E610019 Materials <i>Geert De Clercq -- Department of Materials, Textiles and Chemical Engineering</i>	3		1	A:1	90
2	I610021 Technology for Circular Economy <i>Diederik Rousseau -- Department of Green Chemistry and Technology</i>	3		1	A:2	90
3	I630051 Biochemical Engineering <i>Katleen Raes -- Department of Food Technology, Safety and Health</i>	6		1	A:2	180
4	I630067 Sustainable Materials <i>Ann Dumoulin -- Department of Green Chemistry and Technology</i>	5		1	A:1	150
5	I630062 Portfolio Internationalisation <i>Diederik Rousseau -- Department of Green Chemistry and Technology</i>	3		1	A:J	90

#### 2.1.1 13 credits

This module doesn't need to be followed when the student passes the qualification test and can follow the reduced track.

Nr	Course	CRDT	Ref	MT1	Session	Study
1	I630045 Chemical Engineering <i>Steven De Meester -- Department of Green Chemistry and Technology</i>	7		1	A:1	180
2	I630065 Resource Recovery <i>Stijn Van Hulle -- Department of Green Chemistry and Technology</i>	6		1	A:2	180

## 2.2

21 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	I630019 <b>Biometrics</b> <i>Stijn Luca -- Department of Data Analysis and Mathematical Modelling</i>	3		1	A:2	90
2	I630064 <b>Process Control</b> <i>Sergei Gusev -- Department of Green Chemistry and Technology</i>	5		1	A:1	150
3	I630051 <b>Biochemical Engineering</b> <i>Katleen Raes -- Department of Food Technology, Safety and Health</i>	6		1	A:2	180
4	I630068 <b>Sustainable Energy</b> <i>Jos Knockaert -- Department of Electromechanical, Systems and Metal Engineering</i>	4		1	A:2	120
5	I630062 <b>Portfolio Internationalisation</b> <i>Diederik Rousseau -- Department of Green Chemistry and Technology</i>	3		1	A:J	90

## 2.2.1

16 credits

This module doesn't need to be followed when the student passes the qualification test and can follow the reduced track.

Nr	Course	CRDT	Ref	MT1	Session	Study
1	I630063 <b>Circular Water Technology</b> <i>Stijn Van Hulle -- Department of Green Chemistry and Technology</i>	5		1	A:1	150
2	I630065 <b>Resource Recovery</b> <i>Stijn Van Hulle -- Department of Green Chemistry and Technology</i>	6		1	A:2	180
3	I630067 <b>Sustainable Materials</b> <i>Ann Dumoulin -- Department of Green Chemistry and Technology</i>	5		1	A:1	150

## 2.3

19 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	I610021 <b>Technology for Circular Economy</b> <i>Diederik Rousseau -- Department of Green Chemistry and Technology</i>	3		1	A:2	90
2	I630019 <b>Biometrics</b> <i>Stijn Luca -- Department of Data Analysis and Mathematical Modelling</i>	3		1	A:2	90
3	I630051 <b>Biochemical Engineering</b> <i>Katleen Raes -- Department of Food Technology, Safety and Health</i>	6		1	A:2	180
4	I630062 <b>Portfolio Internationalisation</b> <i>Diederik Rousseau -- Department of Green Chemistry and Technology</i>	3		1	A:J	90
5	I630068 <b>Sustainable Energy</b> <i>Jos Knockaert -- Department of Electromechanical, Systems and Metal Engineering</i>	4		1	A:2	120

## 2.3.1

16 credits

This module doesn't need to be followed when the student passes the qualification test and can follow the reduced track.

Nr	Course	CRDT	Ref	MT1	Session	Study
1	I630063 <b>Circular Water Technology</b> <i>Stijn Van Hulle -- Department of Green Chemistry and Technology</i>	5		1	A:1	150
2	I630065 <b>Resource Recovery</b> <i>Stijn Van Hulle -- Department of Green Chemistry and Technology</i>	6		1	A:2	180
3	I630067 <b>Sustainable Materials</b> <i>Ann Dumoulin -- Department of Green Chemistry and Technology</i>	5		1	A:1	150

## 2.4

50 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E610013 <b>Mechanics</b> <i>Michael Monte -- Department of Electromechanical, Systems and Metal Engineering</i>	6		1	A:J	180
2	E610019 <b>Materials</b> <i>Geert De Clercq -- Department of Materials, Textiles and Chemical Engineering</i>	3		1	A:1	90
3	I610021 <b>Technology for Circular Economy</b> <i>Diederik Rousseau -- Department of Green Chemistry and Technology</i>	3		1	A:2	90
4	I630019 <b>Biometrics</b> <i>Stijn Luca -- Department of Data Analysis and Mathematical Modelling</i>	3		1	A:2	90
5	I630063 <b>Circular Water Technology</b> <i>Stijn Van Hulle -- Department of Green Chemistry and Technology</i>	5		1	A:1	150
6	I630045 <b>Chemical Engineering</b> <i>Steven De Meester -- Department of Green Chemistry and Technology</i>	7		1	A:1	180

7	I630064	Process Control <i>Sergei Gusev -- Department of Green Chemistry and Technology</i>	5	1	A:1	150
8	I630062	Portfolio Internationalisation <i>Diederik Rousseau -- Department of Green Chemistry and Technology</i>	3	1	A:J	90
9	I630067	Sustainable Materials <i>Ann Dumoulin -- Department of Green Chemistry and Technology</i>	5	1	A:1	150
10	I630068	Sustainable Energy <i>Jos Knockaert -- Department of Electromechanical, Systems and Metal Engineering</i>	4	1	A:2	120
11	I630065	Resource Recovery <i>Stijn Van Hulle -- Department of Green Chemistry and Technology</i>	6	1	A:2	180

## 2.5

50 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E610013 Mechanics <i>Michael Monte -- Department of Electromechanical, Systems and Metal Engineering</i>	6		1	A:J	180
2	E610019 Materials <i>Geert De Clercq -- Department of Materials, Textiles and Chemical Engineering</i>	3		1	A:1	90
3	E610016 Physics <i>Michael Monte -- Department of Electromechanical, Systems and Metal Engineering</i>	5		1	B:2	150
4	I630019 Biometrics <i>Stijn Luca -- Department of Data Analysis and Mathematical Modelling</i>	3		1	A:2	90
5	I620031 Physico-Chemistry <i>Stijn Van Hulle -- Department of Green Chemistry and Technology</i>	6		1	A:2	180
6	I630063 Circular Water Technology <i>Stijn Van Hulle -- Department of Green Chemistry and Technology</i>	5		1	A:1	150
7	I630045 Chemical Engineering <i>Steven De Meester -- Department of Green Chemistry and Technology</i>	7		1	A:1	180
8	I630067 Sustainable Materials <i>Ann Dumoulin -- Department of Green Chemistry and Technology</i>	5		1	A:1	150
9	I630065 Resource Recovery <i>Stijn Van Hulle -- Department of Green Chemistry and Technology</i>	6		1	A:2	180
10	I630068 Sustainable Energy <i>Jos Knockaert -- Department of Electromechanical, Systems and Metal Engineering</i>	4		1	A:2	120

### 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 2025-2026	f: annually, from 2026-2027	i: annually, from 2027-2028
b: tri-annually	d: bi-annually, from 2025-2026	g: bi-annually, from 2026-2027	j: bi-annually, from 2027-2028
	e: tri-annually, from 2025-2026	h: tri-annually, from 2026-2027	k: tri-annually, from 2027-2028