

Faculty of Engineering and Architecture

Bridging Programme Master of Science in Sustainable Materials Engineering

Language of instruction: English

Programme version 2

## 1 General Courses 54 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E001161 <b>Mathematic Models [nl]</b> <i>Hennie De Schepper -- Department of Electronics and Information Systems</i>	6	BRUG	1	A:1	180
2	E068900 <b>Structure and Dynamics of Polymers</b> <i>Karen De Clerck -- Department of Materials, Textiles and Chemical Engineering</i>	6		1	B:1	180
3	E900069 <b>Composites</b> <i>Wim Van Paepegem -- Department of Materials, Textiles and Chemical Engineering</i>	6		1	A:1	180
4	E040420 <b>Mechanics of Materials [nl]</b> <i>Wim Van Paepegem -- Department of Materials, Textiles and Chemical Engineering</i>	6	BRUG	1	A:1	180
5	E042740 <b>Fracture and Deformation Behaviour of Materials</b> <i>Leo Kestens -- Department of Electromechanical, Systems and Metal Engineering</i>	6		2	B:1	180
6	E064960 <b>Polymer Processing</b> <i>Dagmar D'hooge -- Department of Materials, Textiles and Chemical Engineering</i>	6		2	B:2	180
7	E066190 <b>Materials Science Thermodynamics</b> <i>Inge Bellemans -- Department of Materials, Textiles and Chemical Engineering</i>	6		2	B:1	180
8	E065340 <b>Micro-analysis and Structure Determination in Materials Science</b> <i>Roumen Petrov -- Department of Electromechanical, Systems and Metal Engineering</i>	6		2	A:1	180

### 1.1 General Courses for Metal Science and Engineering

Subscribe to the general courses below when Major Metal Science and Engineering is chosen.

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E066020 <b>Microstructure of Materials [nl]</b> <i>Marcel Sluiter -- Department of Electromechanical, Systems and Metal Engineering</i>	6	BRUG	1	A:2	180

### 1.2 General Courses for Polymers and Fibre Structures

Subscribe to the general courses below when Major Polymers and Fibre Structures is chosen.

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E069110 <b>Advanced Fibres and Derived Materials [nl]</b> <i>Lode Daelemans -- Department of Materials, Textiles and Chemical Engineering</i>	6	BRUG	1	A:2	180

## 2 Elective Courses 42 credits

Subscribe to 42 credit units from 1 path from the following list. Subject to approval by the faculty.

### 2.1 Elective Courses: Metal Science and Engineering

Subscribe to:

- Major Metal Science and Engineering (42 credit units) from the Master of Science in Sustainable Materials Engineering.

### 2.2 Elective Courses: Polymers and Fibre Structures

Subscribe to:

- Major Polymers and Fibre Structures (36 credit units) from the Master of Science in Sustainable Materials Engineering;
- elective courses (6 credit units) from the List Elective Courses Master of Science in Sustainable Materials Engineering or from the study programmes of Ghent University. Subject to approval by the faculty.

## 3 Master's Dissertation 24 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E091103 <b>Master's Dissertation</b>	24		2	B:J	720

## 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 2023-2024	f: annually, from 2024-2025	i: annually, from 2025-2026
b: tri-annually	d: bi-annually, from 2023-2024	g: bi-annually, from 2024-2025	j: bi-annually, from 2025-2026
	e: tri-annually, from 2023-2024	h: tri-annually, from 2024-2025	k: tri-annually, from 2025-2026